Service Manual

CB TRANSCEIVER

Model GRANT

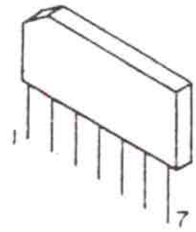
UT - 543A

uniden®

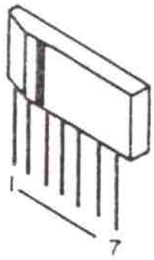
CORPORATION

D

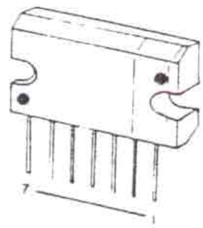
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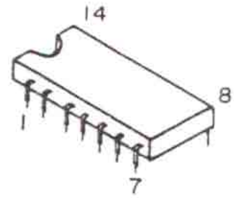
AN612



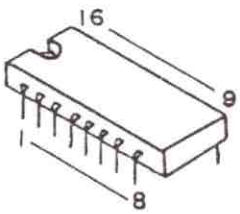
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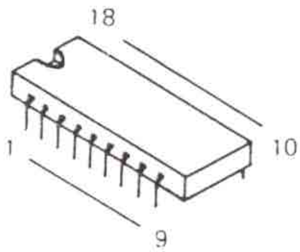
TA75902P
SO42P



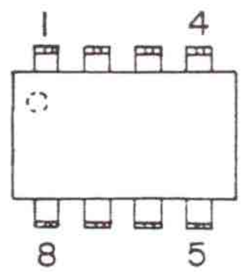
TC4008BP



MB8719



NJM4558D



TRANSISTORS

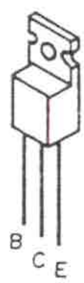
2SA733
2SC945
2SC1674
2SC1675
2SC1730
2SC1973



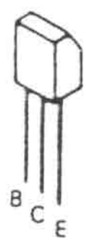
2SB525



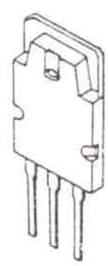
2SA473
2SC2312
2SC2166



2SD471

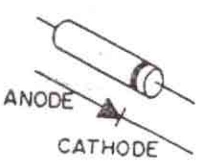


2SB754

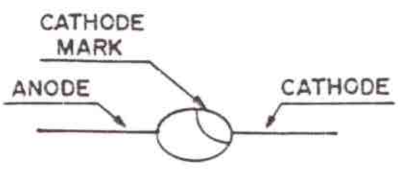


DIODES

1N60
1S2075
MC301
1N4003
1S2688
1S2339
RD7.5EB2
RD5.1EB2



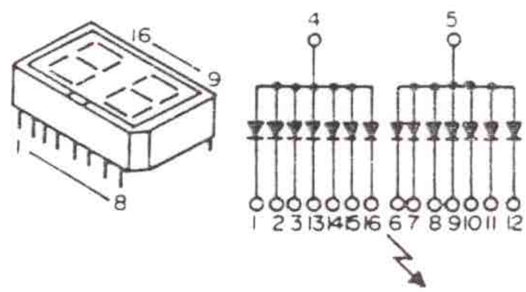
KB262
KB362



TLR124
TLG124G



UR202



	F(RF)	F(LOCAL)
1	26.965	16.27
2	26.975	16.28
3	26.985	16.29
4	27.005	16.31
5	27.015	16.32
6	27.025	16.33
7	27.035	16.34
8	27.055	16.36
9	27.065	16.37
10	27.075	16.38
11	27.085	16.39
12	27.105	16.41
13	27.115	16.42
14	27.125	16.43
15	27.135	16.44
16	27.155	16.46
17	27.165	16.47
18	27.175	16.48
19	27.185	16.49
20	27.205	16.51
21	27.215	16.52
22	27.225	16.53
23	27.255	16.56
24	27.235	16.54
25	27.245	16.55
26	27.265	16.57
27	27.275	16.58
28	27.285	16.59
29	27.295	16.60
30	27.305	16.61
31	27.315	16.62
32	27.325	16.63
33	27.335	16.64
34	27.345	16.65
35	27.355	16.66
36	27.365	16.67
37	27.375	16.68
38	27.385	16.69
39	27.395	16.70
40	27.405	16.71

F local : +2.5 KHz (BLS)
-2.5 KHz (BLT)

Fréquence du quartz :
15.4525 MHz (BLS)

ALIGNMENT OF RECEIVER

1. TEST EQUIPMENT REQUIRED

   A. RF signal generator
   B. DC power supply (13.8V)
   C. AF VTVM
   D. 8 Ohm load
   E. oscilloscope AF
   F. oscilloscope (0-50 Mhz)

2. ALIGNMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : RX, AM MID 19CH AF VR : CW MAX. SQ VR : CCW MAX. RF GAIN : CW MAX. CLARIFIER : CENTER MOD, S/RF : S/RF NB/ANL, OFF : OFF	L8	ADJUST THE SG ON 27,185 Mhz, WITH 1KHz, 30% MODULATION ADJUST L8
2	SAME AS STEP 1	L7, 9, 11, 12 13, 52, 3, 4 5	ADJUST LEVEL OF SG TO OBTAIN 2V ON AF VTVM THE ADJUSTED COILS FOR MAX. READING ON AF VTVM
3	SAME AS STEP 1	L8	ADJUST TO OBTAIN MIN. DIFF. BETWEEN CH40 AND CH1
4	SAME AS STEP 1	VR1	SET THE LEVEL OF SG TO 100 MV ADJUST VR1 FOR "5-9" READING ON TRANSC. METER
5	SAME AS STEP 1	VR4	SET SQ.VR ON MAX. ADJUST LEVEL OF SG TO 1000 HV; ADJUST VR4 SO THAT THE RADIO SIGNAL WILL APPEAR ON OSCILLATOR; SET SQ VR ON MIN.
6	SAME AS STEP 1 MODE : USB	L14, 15	SET RF GEN ON 27,186 MHz - ADJUST THE COIL TO OBTAIN MAX. DEVIATION ON AF VTVM
7	SAME AS STEP 1	VR2	SET LEVEL OF SG ON 100 uV ADJUST VR2 TO OBTAIN "S9" ON TR. METER
8	SAME AS STEP 1 SQ VR : CW MAX.	VR3	SET LEVEL OF SG TO 1000 uV ADJUST VR3 SO THAT THE AUDIO SIGNAL WILL APPEAR ON OSCIL.
9	SAME AS STEP 1 NB/ANL, OFF: ON MID, 18CH, USB	L1, 2	SET SG ON 27,185 MHz, 0% MOD., 10 uV LEVEL; CONNECT OSCIL. ON D2 AND ADJUST THE COILS TO OBTAIN MAX. DEVIATION
10	SAME AS STEP 1 MODE : FM	L6	SET SG ON 27,185 MHz WITH 1 KHz DEVIATION; LEVEL ON 1000 uV ADJUST LG TO OBTAIN MAX.

ALIGNMENT OF PLL AND CARRIER OSCILLATOR

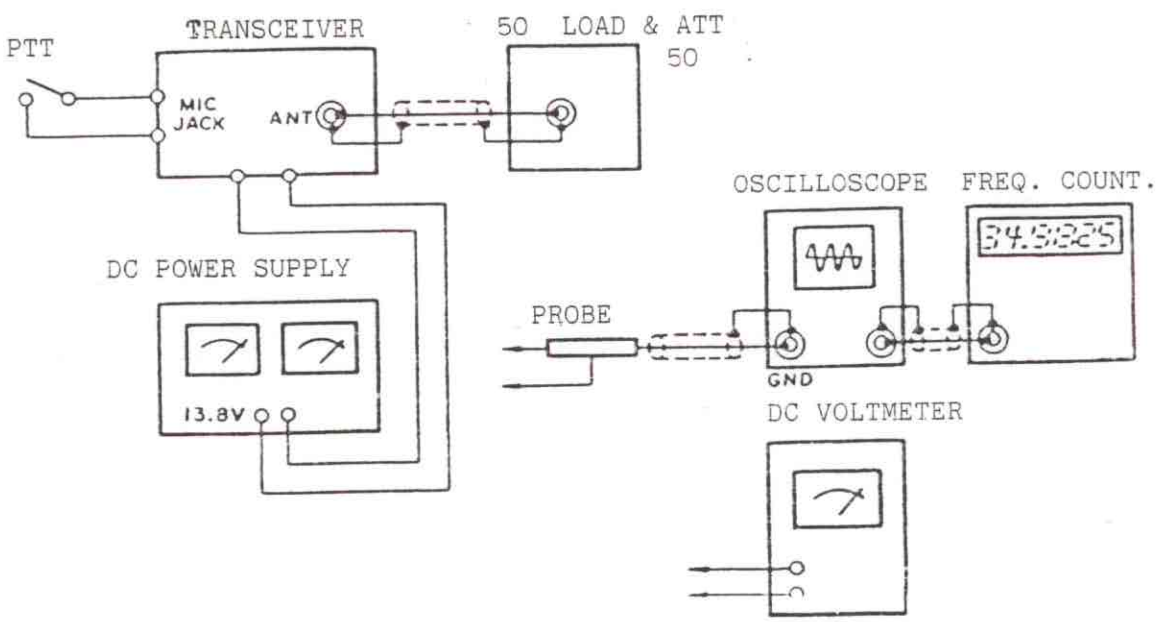
1. TEST EQUIPMENT REQUIRED

A. oscilloscope (50 MHz)
B. frequency counter
C. DC power supply (19,8 V)
D. 50 Ohm load
E. DC Volt meter

2. ALIGMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : RX, AM MID 19CH	OSCILLOSCOPE ON TP.4	ADJUST TO L17 TO OBTAIN MAX. READING
2	MODE : RX, AM MID 40CH	DC VOLT METER ON TP.2	ADJUST TO L18 TO OBTAIN 5,5 V
3	MODE : RX, AM MID 19CH	OSCILLOSCOPE ON TP.3	ADJUST TO L19 TO OBTAIN MAX. READING
4	MODE : RX, AM MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L25 TO OBTAIN 16,490 MHz
5	MODE : RX, USB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L26 TO OBTAIN 16,4925 MHz
6	MODE : RX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L27 TO OBTAIN 16,4875 MHz
7	MODE : TX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO VR6 TO OBTAIN 16,875 MHz
8	MODE : RX, AM MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L22 TO OBTAIN 16,040 MHz
9	MODE : RX, USB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L23 TO OBTAIN 16,0425 MHz
10	MODE : RX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L24 TO OBTAIN 16,0375 MHz
11	MODE : RX, LSB	FREQUENCY CNT ON TP.6	ADJUST TO L30 TO OBTAIN 16,6975 MHz
12	MODE : RX, USB	FREQUENCY CNT ON TP.6	ADJUST TO L29 TO OBTAIN 10,6925 MHz
13	MODE : TX, AM	FREQUENCY CNT ON B FROM TR43	ADJUST TO L28 TO OBTAIN 10,6950 MHz

TEST EQUIPMENT CONNECTION



ALGIGNMENT OF TRANSMITTERS

1. TEST EQUIPMENT REQUIRED

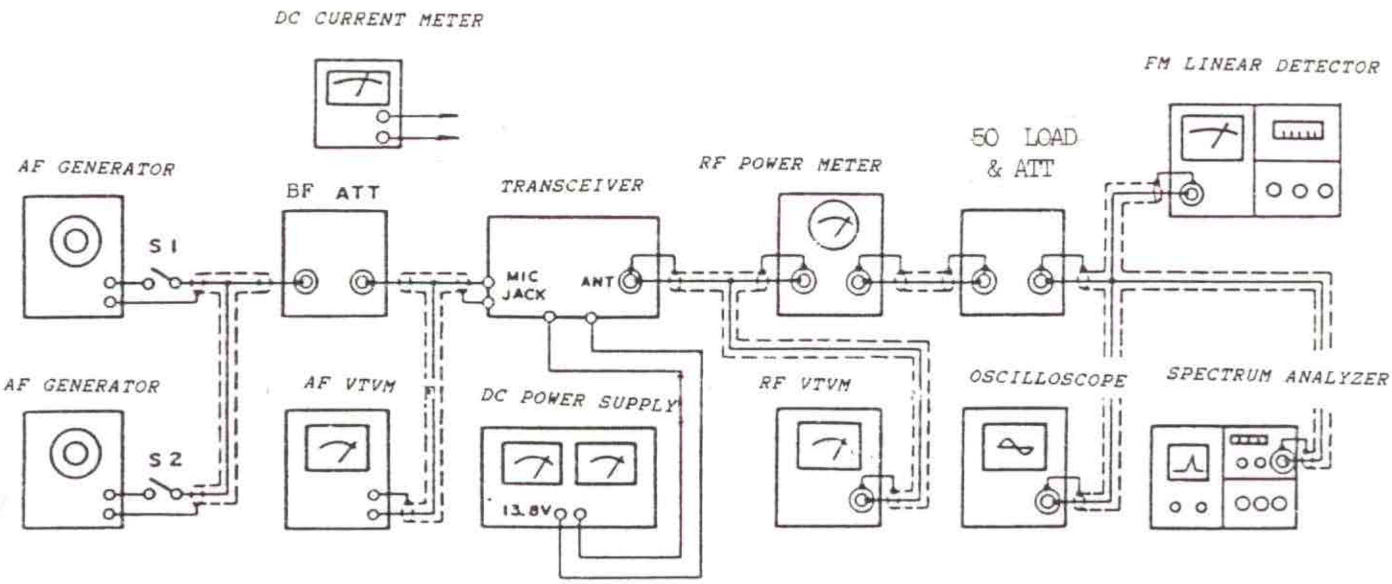
A. 2 AF generator
B. RF power meter
C. DC power supply
D. DC current meter
E. AF VTVM
F. frequency counter
G. 500 Ohm load
H. RF VTVM
I. oscilloscope
J. spectrum analyzer

2. ALIGNMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : TX, USB S1, 2 : OFF	VR11	DISCONNECT PC 834AA, CONNECT DC CURRENT METER ON TP9 (+); TP8(-). ADJUST FOR 50 mA ON DC CURRENT METER
2	SAME AS STEP 1	VR9	CONNECT DC CURRENT METER ON TP9(+); TP8(-); ADJUST VR 10 MIN, THEN ADJUST VR9 TO OBTAIN 4 mA, ADJUST VR10 TO OBTAIN 80 mA ON DC CURRENT METER
3	SAME AS STEP 1		
	AFTER STEP 1, 2, 3 RESTORE CIRCUIT PC834AA		
4	MODE : TX, USB S1, 2 : ON (2,4 KHz & 0,5 KHz)	L46	SET THE CORE OF L4G TO THE BOTTOM, ADJUST VR12 TO THE MIN.
5	SAME AS STEP 4	L45, L48 L49	ADJUST THE CORES TO OBTAIN MAX. DEVIATION ON THE RF VTVM; REPEAT THIS OPERATION WITH LOWER AF LEVELS ON MIC CIRCUIT
6	SAME AS STEP 4	L46	ADJUST TO OBTAIN MAX DEVIATION ON RF VTVM; ADJUST TO OBTAIN A MIN. POWER DIFF. BETWEEN CH40 HI AND 1 LOW
7	MODE : TX, AM S1 : ON (1 KHz) MID : 19CH	L37	ADJUST TO OBTAIN MAX. DEVIATION ON S/RF VTVM
8	SAMES AS STEP 4	VR12	ADJUST TO OBTAIN 32,4 V ON RF VTVM
9	SAME AS STEP 1	VR7	ADJUST TO OBTAIN THE MIN. DIFF. BETWEEN USB AND LSB WITH THE SPEC. ANALY.
10	MODE : TX, AM S1, 2 : OFF	VR13	ADJUST TO OBTAIN 10W (4W) ON RF POWER METER
11	SAME AS STEP 10	VR8	SET SWITCH ON S/RF ADJUST VR8 TO SET S-METER BETWEEN THE RED AND GREEN FIELD
12	MODE : TX, AM S1 : ON	VR14	SET THE AF GEN ON 1 KHz, 30 mV ADJUST VR14 TO OBTAIN 90% MODULATION ON THE OSCILLOSCOPE
13	MODE : TX, FM S1 : ON	VR5	SET THE AF GEN. ON 1 KHz, 30 mV ADJUST VR5 TO OBTAIN +/- 2 khZ DEVIATION ON THE S-METER
14	MODE : TX, AM S1 : ON	VR15	SET SWITCH ON MOD, SET GEN. TO OBTAIN 50% MOD. ON THE OSCILL. ADJUST LEVEL OF AF GEN. TO 16 DB; ADJUST VR15 TO OBTAIN 100% MOD. ON S- METER

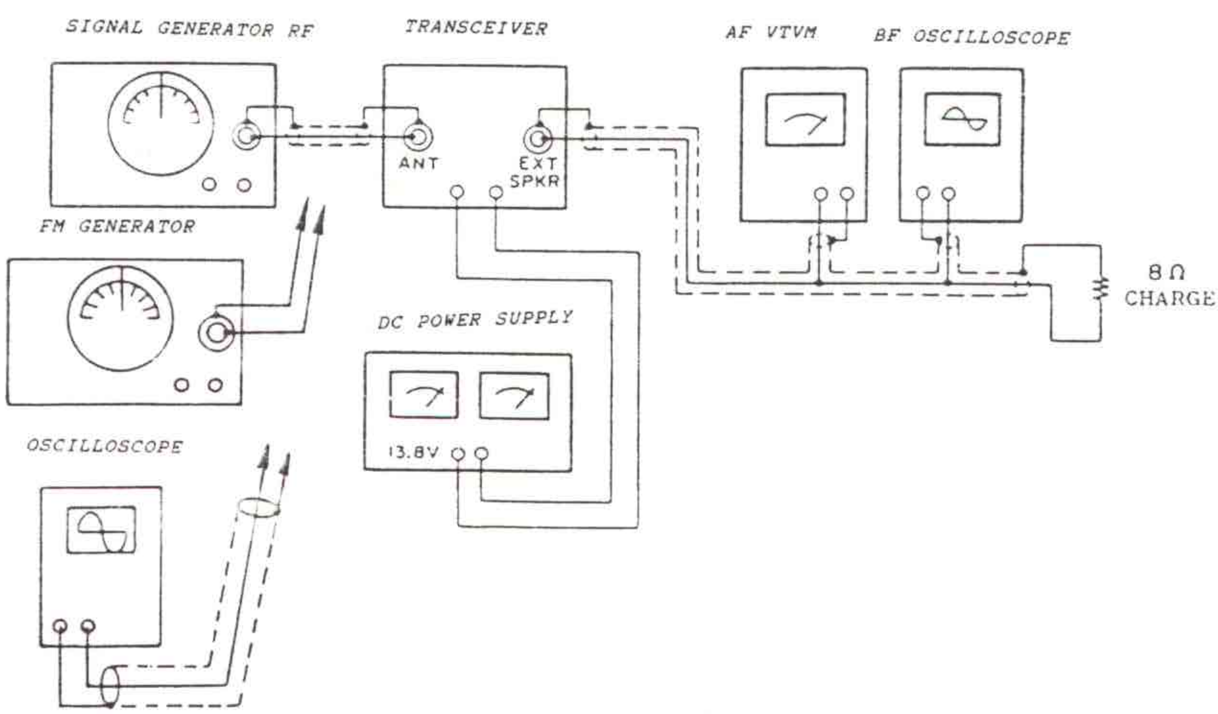
TEST EQUIPMENT CONNECTION

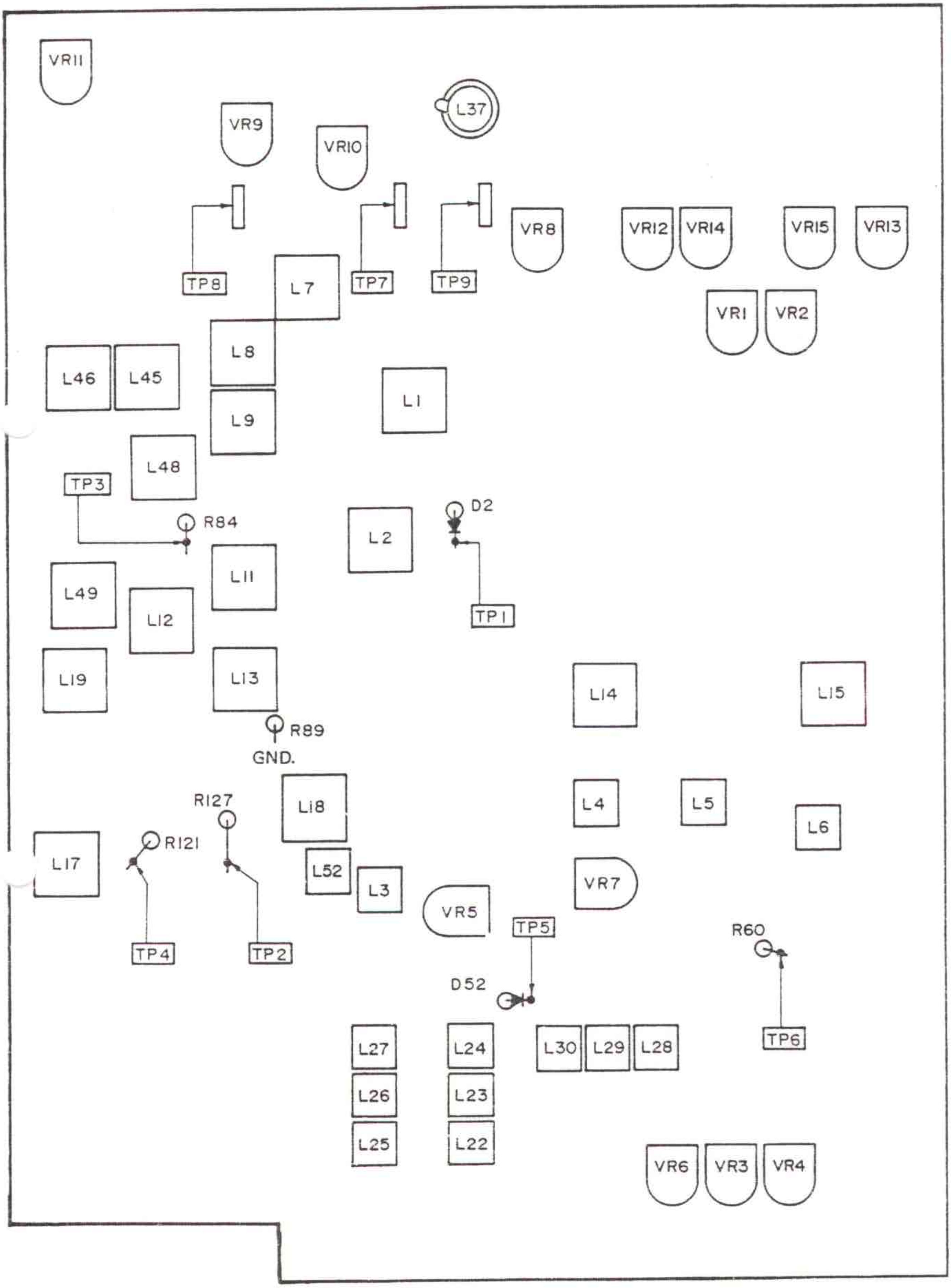
ALIGNMENT OF TRANSMITTER



TEST EQUIPMENT CONNECTION

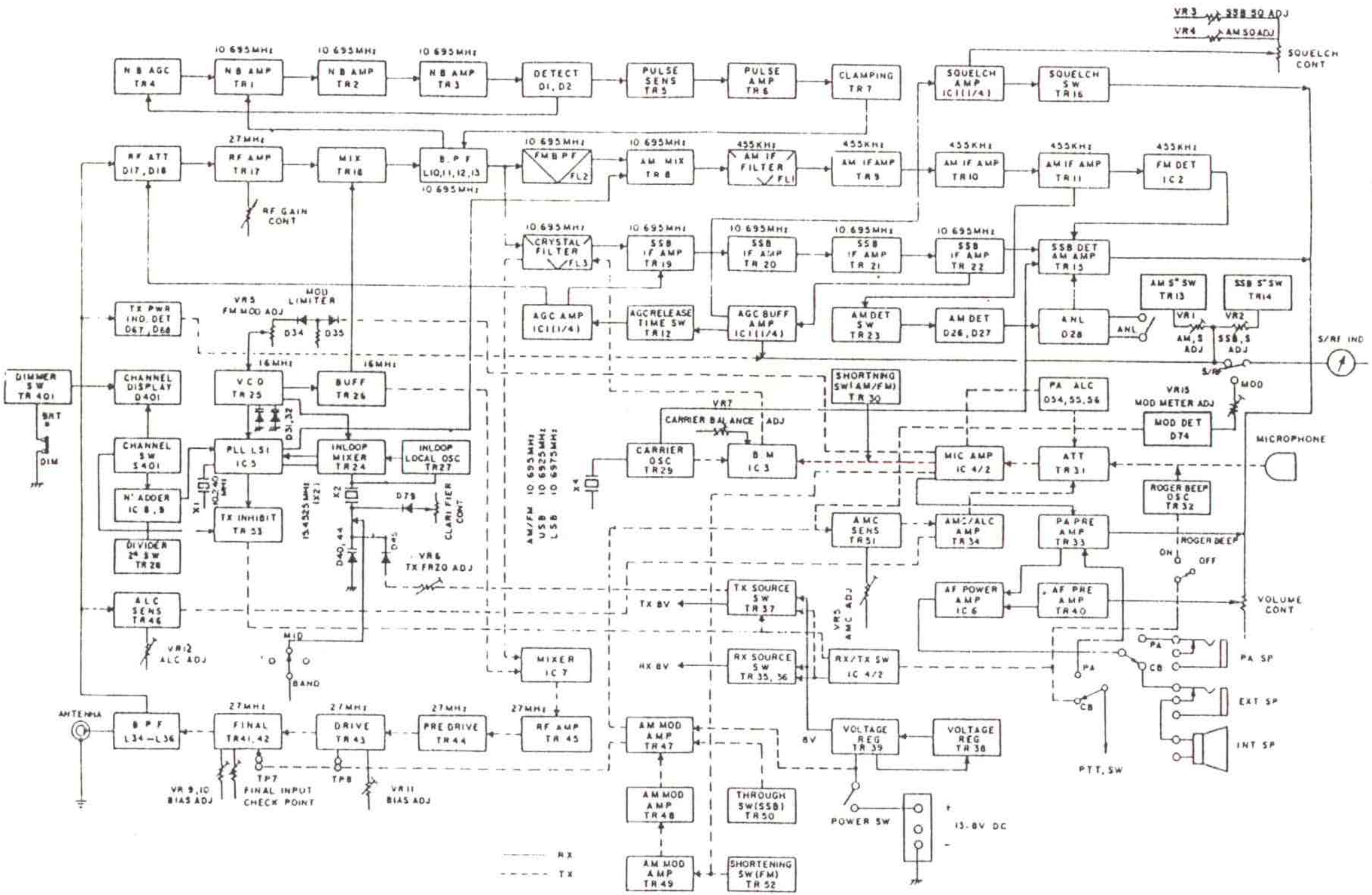
ALIGNMENT OF RECEIVER



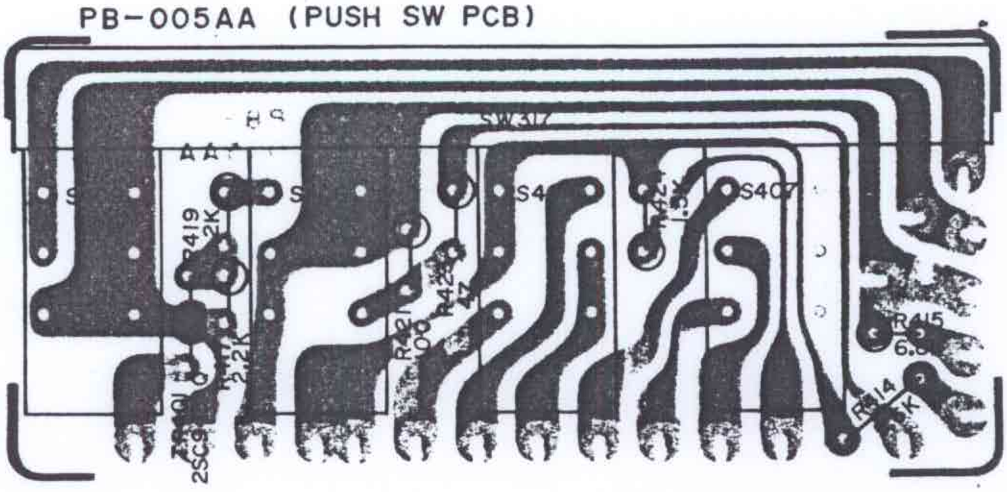


VR11
VR9
VR10
L37
VR8
VR12
VR14
VR15
VR13
TP8
L7
TP7
TP9
VR1
VR2
L46
L45
L8
L9
L1
L48
TP3
R84
L2
D2
L11
L49
L12
TP1
L19
L13
L14
L15
R89
GND.
R127
L18
L4
L5
L6
L17
R121
L52
L3
VR7
VR5
TP5
R60
TP4
TP2
D52
L27
L24
L30
L29
L28
TP6
L26
L23
L25
L22
VR6
VR3
VR4

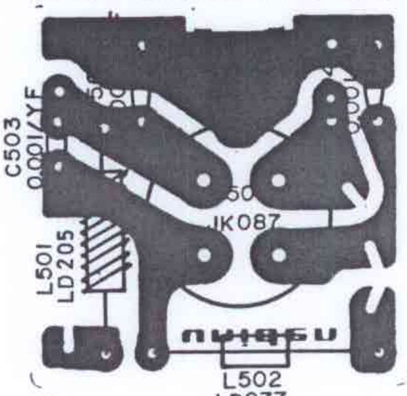
7


VR3 SSB SQ ADJ
VR4 AM SQ ADJ
SQUELCH CONT
N B AGC TR4
10 695MHz
N B AMP TR1
N B AMP TR2
N B AMP TR3
DETECT D1, D2
PULSE SENS TR5
PULSE AMP TR6
CLAMPING TR7
SQUELCH AMP IC1(1/4)
SQUELCH SW TR16
RF ATT D17, D18
27MHz
RF AMP TR17
RF GAIN CONT
MIX TR18
B P F L10,11,12,13
FM BPF FL2
AM MIX TR8
455KHz
AM IF FILTER FL1
AM IF AMP TR9
AM IF AMP TR10
AM IF AMP TR11
FM DET IC2
CRYSTAL FILTER FL3
SSB IF AMP TR19
SSB IF AMP TR20
SSB IF AMP TR21
SSB IF AMP TR22
SSB DET AM AMP TR15
AM S" SW TR13
SSB S" SW TR14
AGC AMP IC1(1/4)
AGC RELEASE TIME SW TR12
AGC BUFF AMP IC1(1/4)
AM DET SW TR23
AM DET D26, D27
ANL D28
ANL
VR1 AM,S ADJ
VR2 SSB,S ADJ
S/RF IND
S/RF
MOD
TX PWR IND. DET D67, D68
VR5 FM MOD ADJ
MOD LIMITER
D34
D35
DIMMER SW TR401
BRT
DIM
CHANNEL DISPLAY D401
VCO TR25
16MHz
BUFF TR26
SHORTNING SW(AM/FM) TR30
PA ALC D54, 55, 56
VR15 MOD METER ADJ
MOD DET D74
MICROPHONE
VR7
CARRIER BALANCE ADJ
CHANNEL SW S401
PLL LSI IC5
D31,32
INLOOP MIXER TR24
INLOOP LOCAL OSC TR27
CARRIER OSC TR29
X4
B M IC3
MIC AMP IC 4/2
ATT TR31
ROGER BEEP OSC TR32
N' ADDER IC 8, 9
X1 10.240 MHz
X2 15.4525 MHz (X2)
D79
CLARIFIER CONT
AM/FM 10 695MHz
USB 10 6925MHz
LSB 10 6975MHz
TX INHIBIT TR53
DIVIDER 2^N SW TR28
D40, 44
D45
VR6 TX FREQ ADJ
AMC SENS TR51
AMC/ALC AMP TR34
PA PRE AMP TR33
ROGER BEEP
ON
OFF
ALC SENS TR46
VR12 ALC ADJ
TX 8V
TX SOURCE SW TR37
VR5 AMC ADJ
AF POWER AMP IC6
AF PRE AMP TR40
VOLUME CONT
MID
BAND
MIXER IC7
RX 8V
RX SOURCE SW TR35, 36
RX/TX SW IC 4/2
PA
CB
PA SP
EXT SP
INT SP
ANTENNA
B P F L34—L36
FINAL TR41, 42
DRIVE TR43
PRE DRIVE TR44
RF AMP TR45
AM MOD AMP TR47
8V
VOLTAGE REG TR39
VOLTAGE REG TR38
PTT, SW
VR 9,10 BIAS ADJ
TP7
FINAL INPUT CHECK POINT
TP8
VR11 BIAS ADJ
AM MOD AMP TR48
THROUGH SW(SSB) TR50
POWER SW
+
15.8V DC
-
RX
TX
AM MOD AMP TR49
SHORTENING SW(FM) TR52

PB－005AA (PUSH SW PCB)



●PC－266AA (MIC JACK PCB)

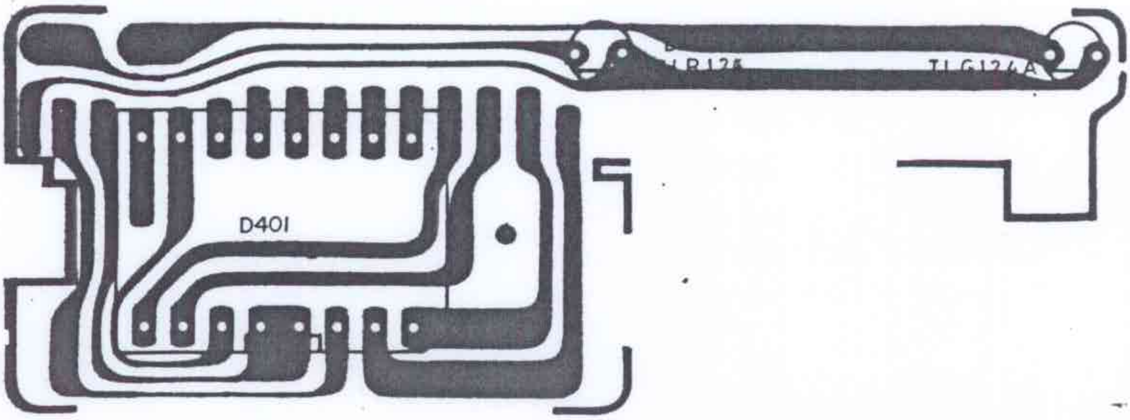


注）指示なき抵抗は、1/8Wである

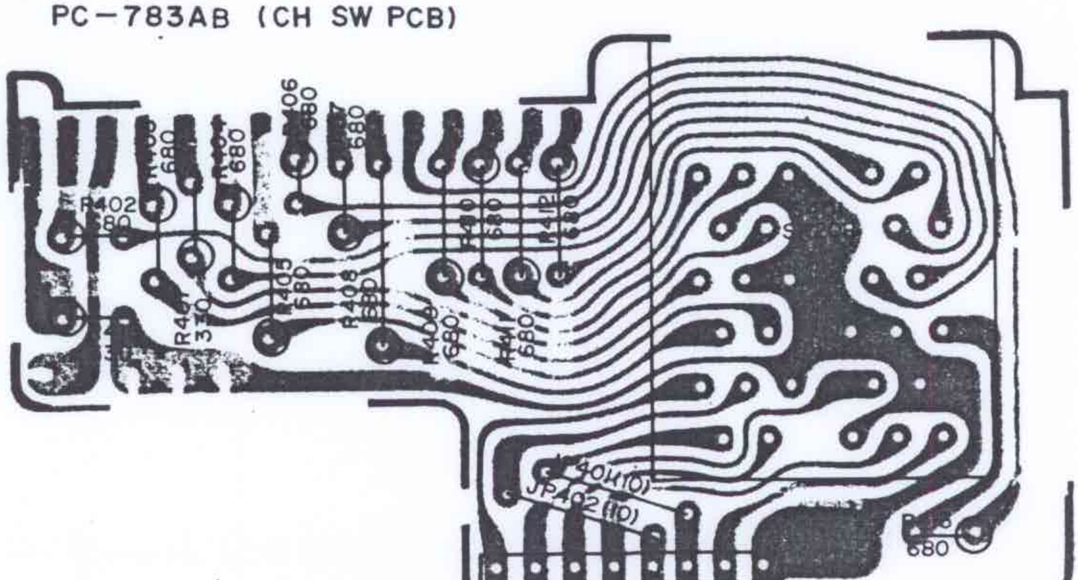
機種名	UT-543A			
図名	部品取付図			
図番	E23-3745			
承認	検図	製図	担当	作成
	宮下	天野		S.55.12.18

UT-543B ⑨

PC-960AA (LED PCB)

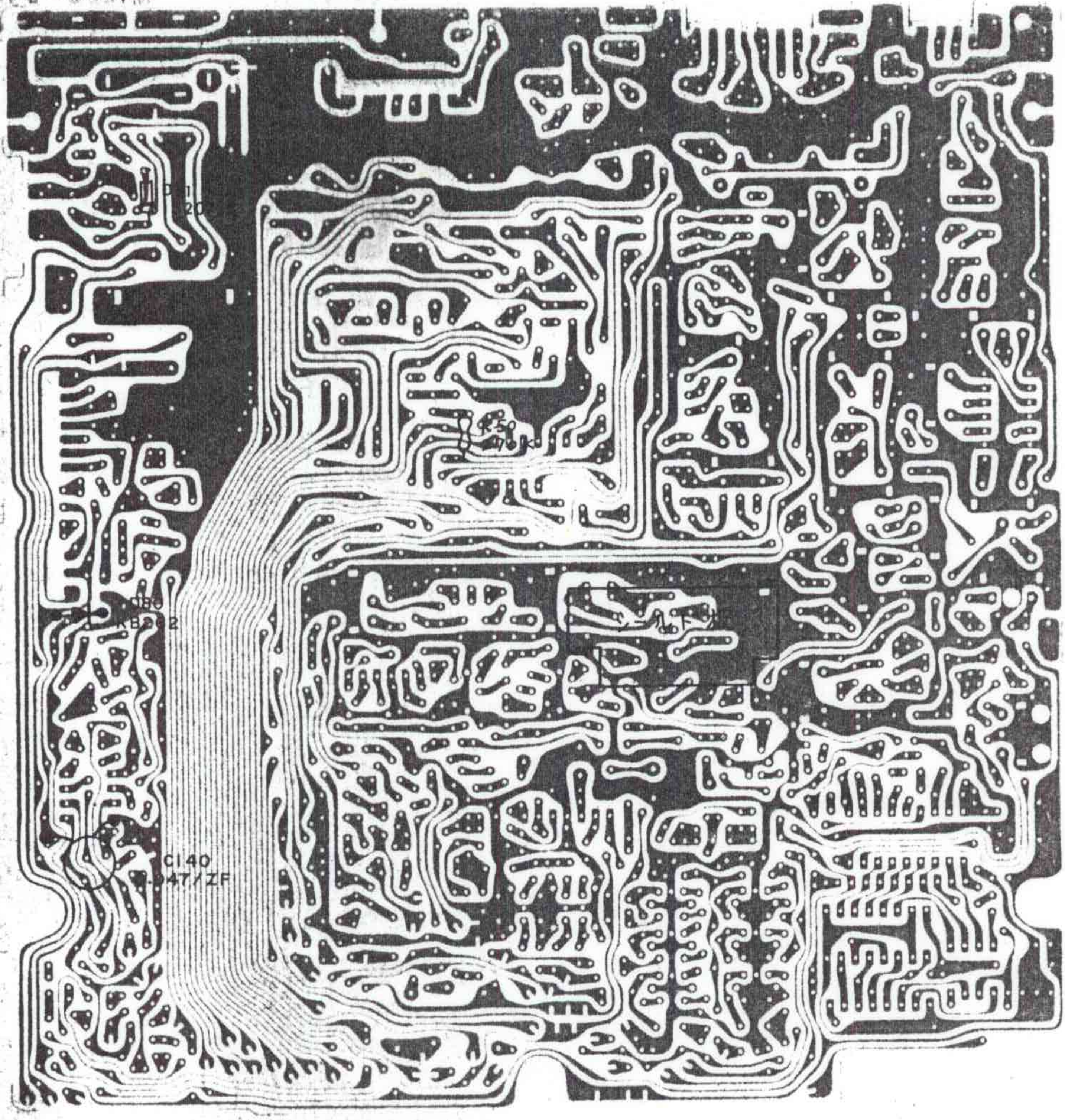


PC-783AB (CH SW PCB)



E24-3746

PC-999AB

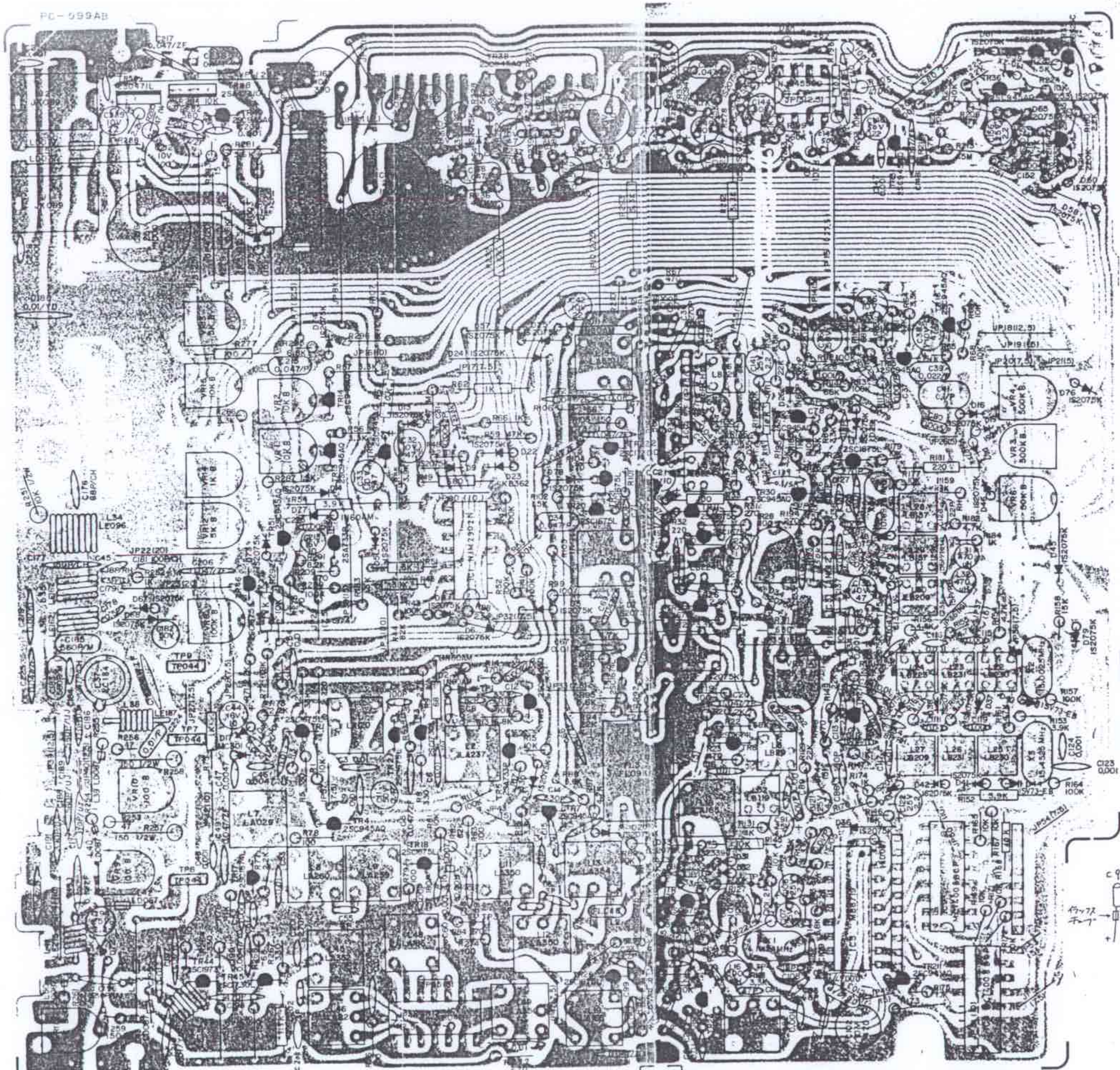


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図名	裏部品取付図		
図番	E24-3746		
承認	検図	担当	作成
			S56.2.3 イマイ

UT-543B

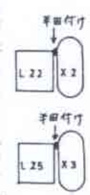
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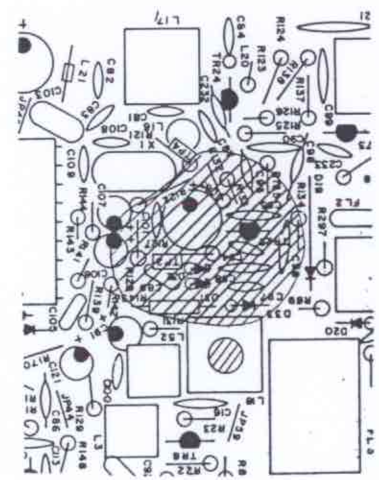
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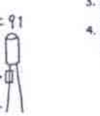


(12)

斜線部パラフィンロックする事







NOTES:

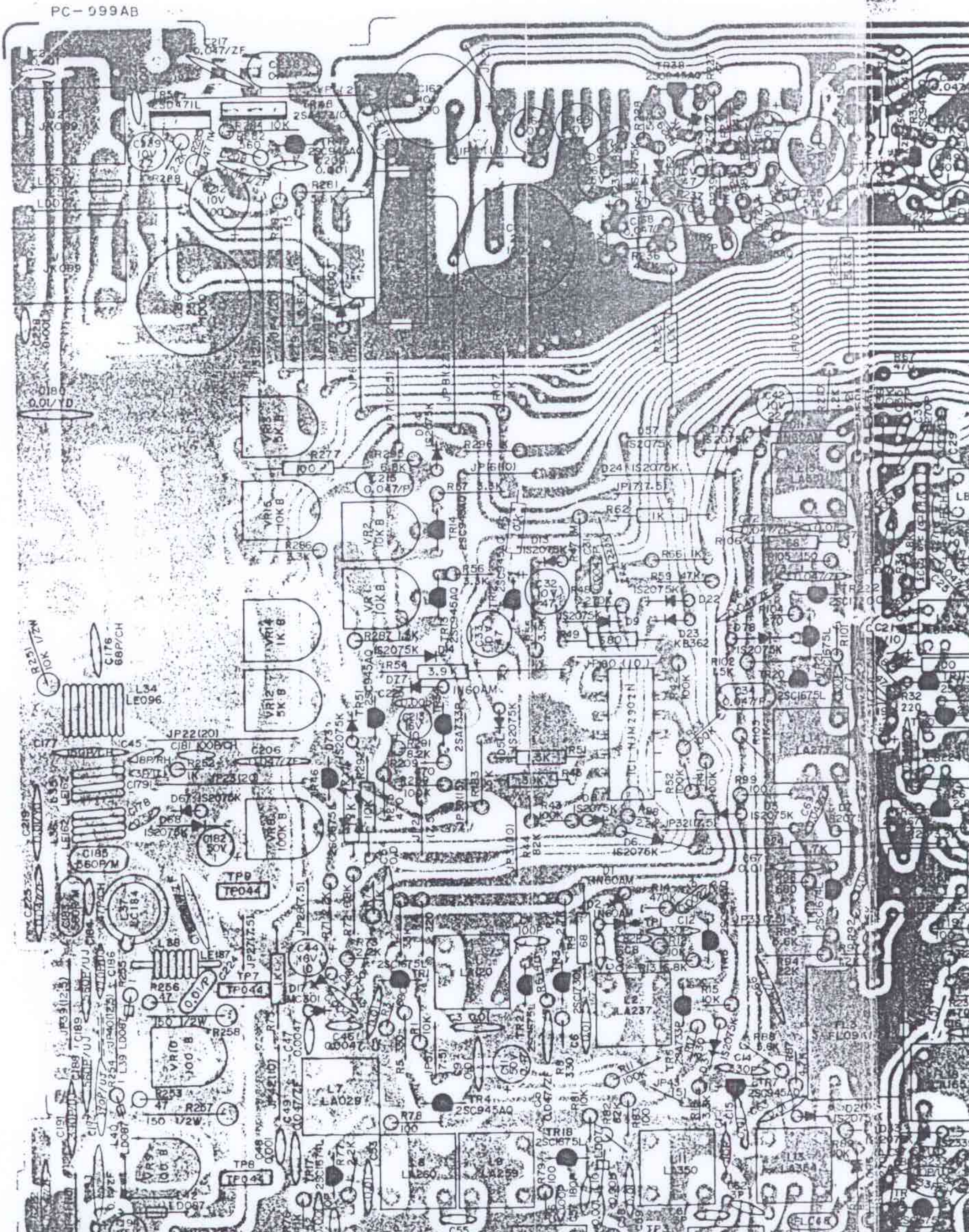
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR YF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.

(B)

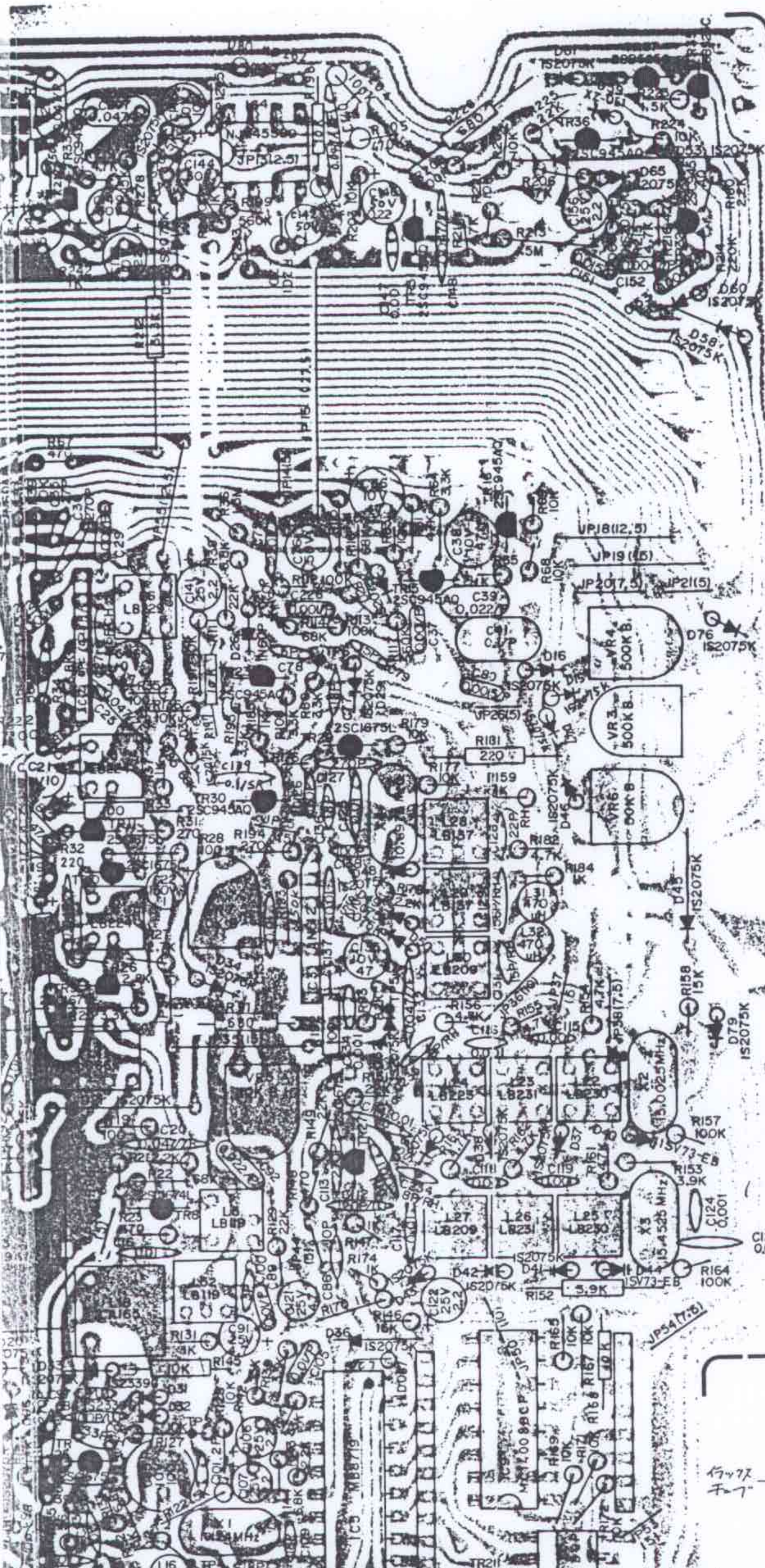
機種名	UT-543/
図名	MAIN PCB 部品取付図
図番	E22-3744

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			9.55.12.16

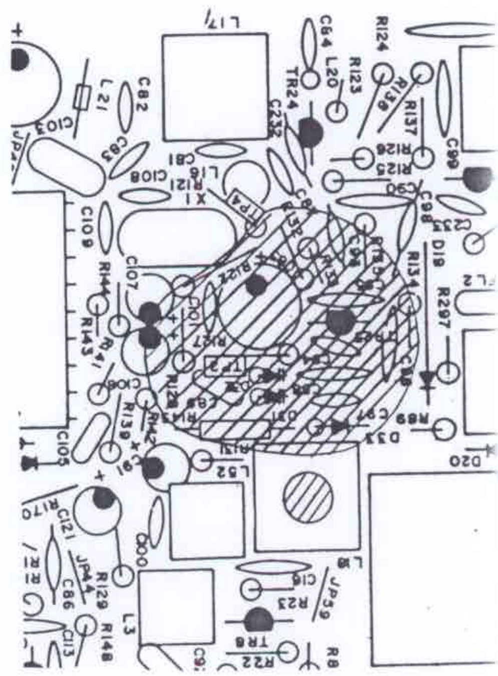
PC-999AB

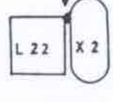


C217 0.047/ZF
TR38 2SC945AQ
C167
C180 0.01/YD
R277 100
C215 0.047/P
R295 6.8K
D24 IS2075K
D57 IS2075K
JP17(7.5)
R62 1K
R66 1K
R59 47K
D22
D23 KB362
R57 3.3K
TR14 2SC945AQ
VR13 5K B
VR15 10K B
VR2 10K B
VR1 10K B
VR14 1K B
VR12 5K B
VR16 100K B
R286 3.3K
R56 3.3K
R267 12K
IS2075K
R54
3.9K
IN60AM
D77
2SA733P
C32 10V 47
IC1 NJM2902N
R52 100K
R99 100
D5 IS2075K
D6 IS2076K
R44 82K
R43 100K
JP32(7.5)
C34 0.047/P
R102 1.5K
TR20 2SC1675L
R251 10K 1/2W
C176 68P/CH
L34 LE096
C177
C45
JP22(20)
C181 100P/CH
C206 0.047/ZF
R252 1K
JP23(20)
D67 IS2076K
D68 IS2076K
C182 50V 1
C185 560P/M
TP9 TP044
C37 2SC184
L88
LE187
R256 47
TP7 TP044
C44 16V 10
D17 MC301
TR1 2SC1675L
LA120
L2 LA237
R14 470K
IN60AM
C12
R15 10K
R88 6.8K
C14 330P
TR7 2SC945AQ
C3 0.01
C46 0.0047
C47 0.0047
VR10 100 B
R253 47
R257 150 1/2W
L7 LA029
TR4 2SC945AQ
R78 100
L8 LA260
L9 LA259
TR18 2SC1675L
L11 LA350
L13 LA354
VR9 100 B
TP8 TP044
C55
L48 LA186
L12 LA350
TR44 2SC1973
TR45 2SC1730L
L45 LA352
R259 150
R272 470
FL3 FL091
TR21



斜線部パラフィンロックする事







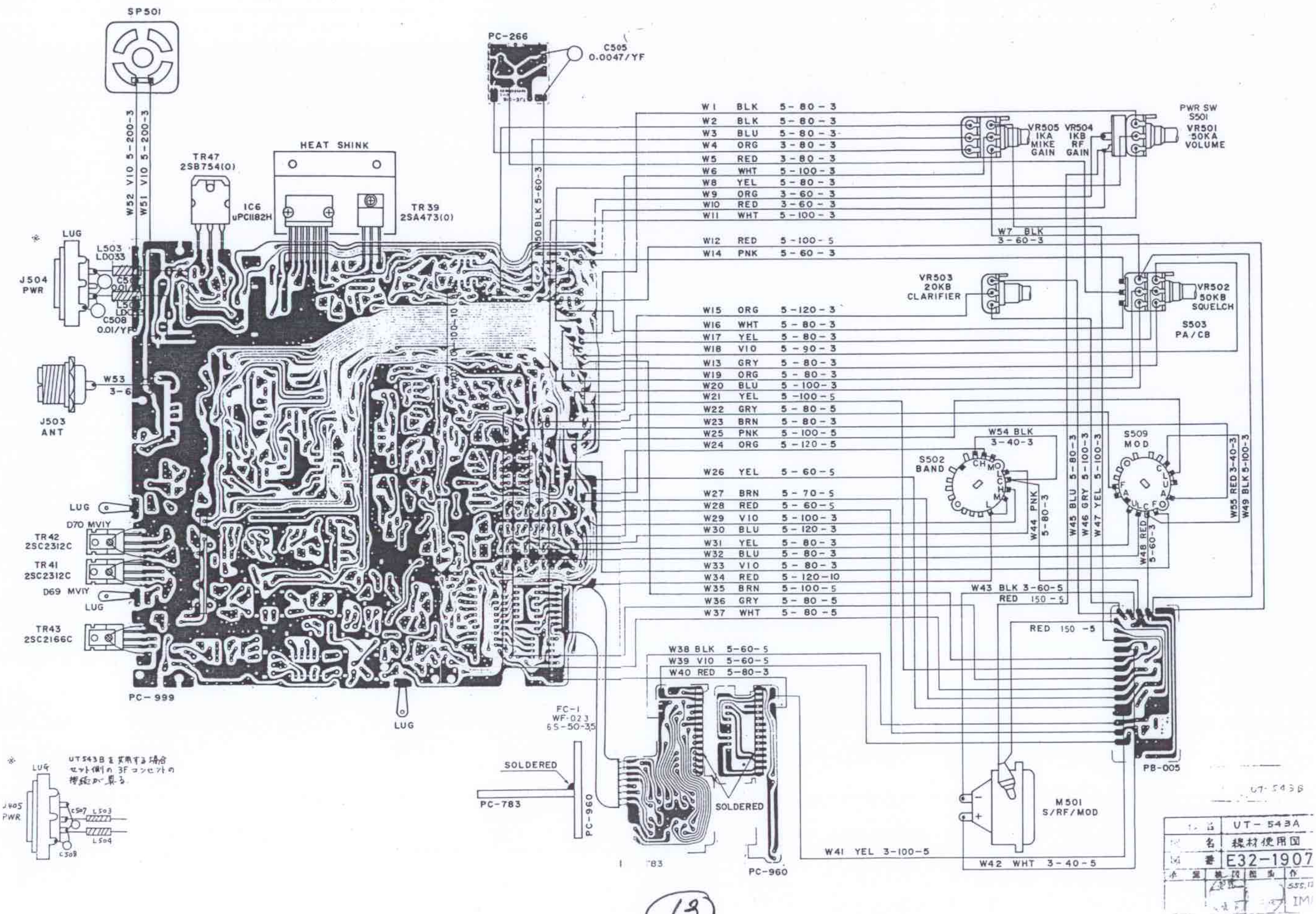


NOTES:

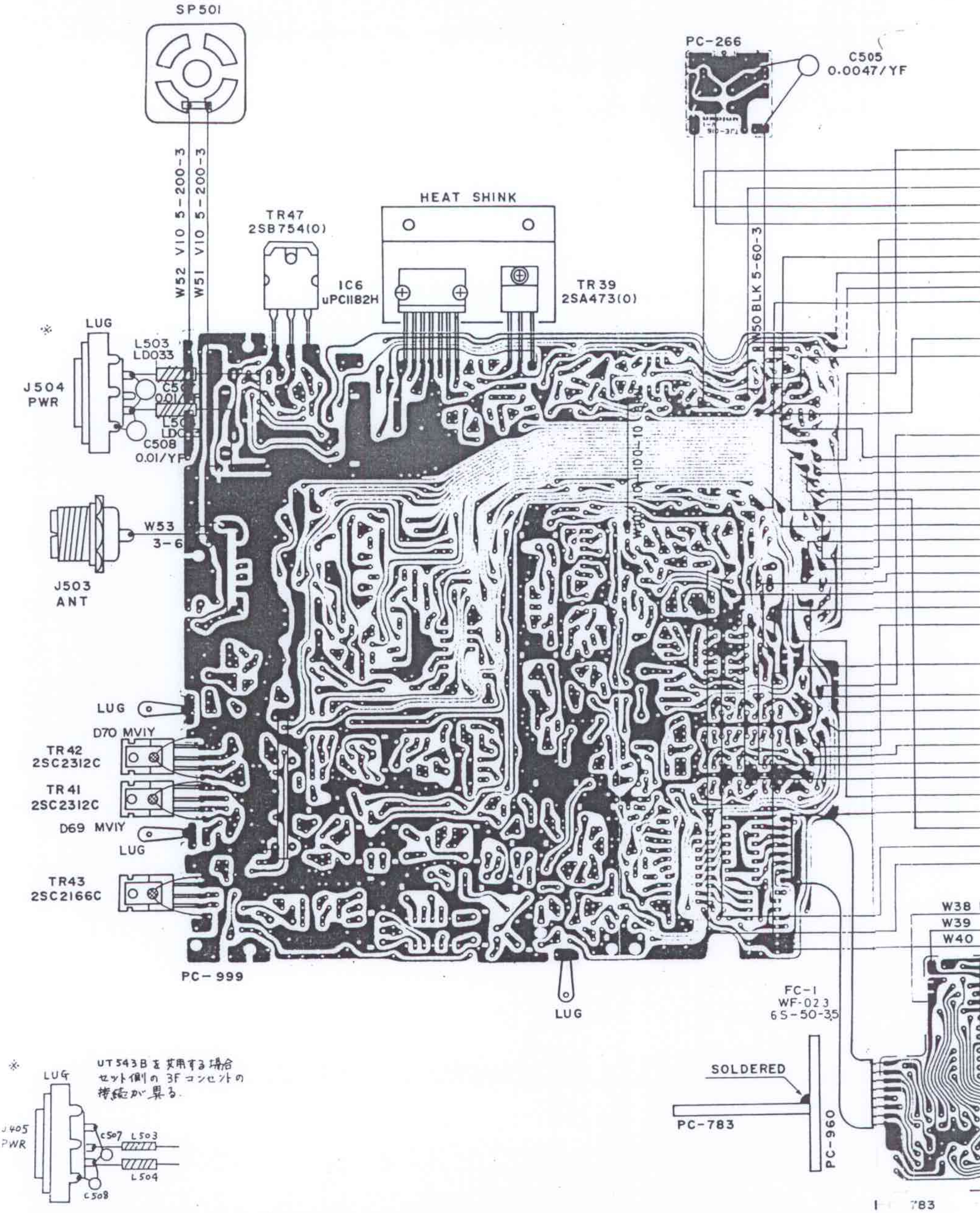
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR YF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.

機種名	UT-543/		
図名	MAIN PCB 部品取付図		
図番	E22-3744		
承認	検図		作成
			55.12.16

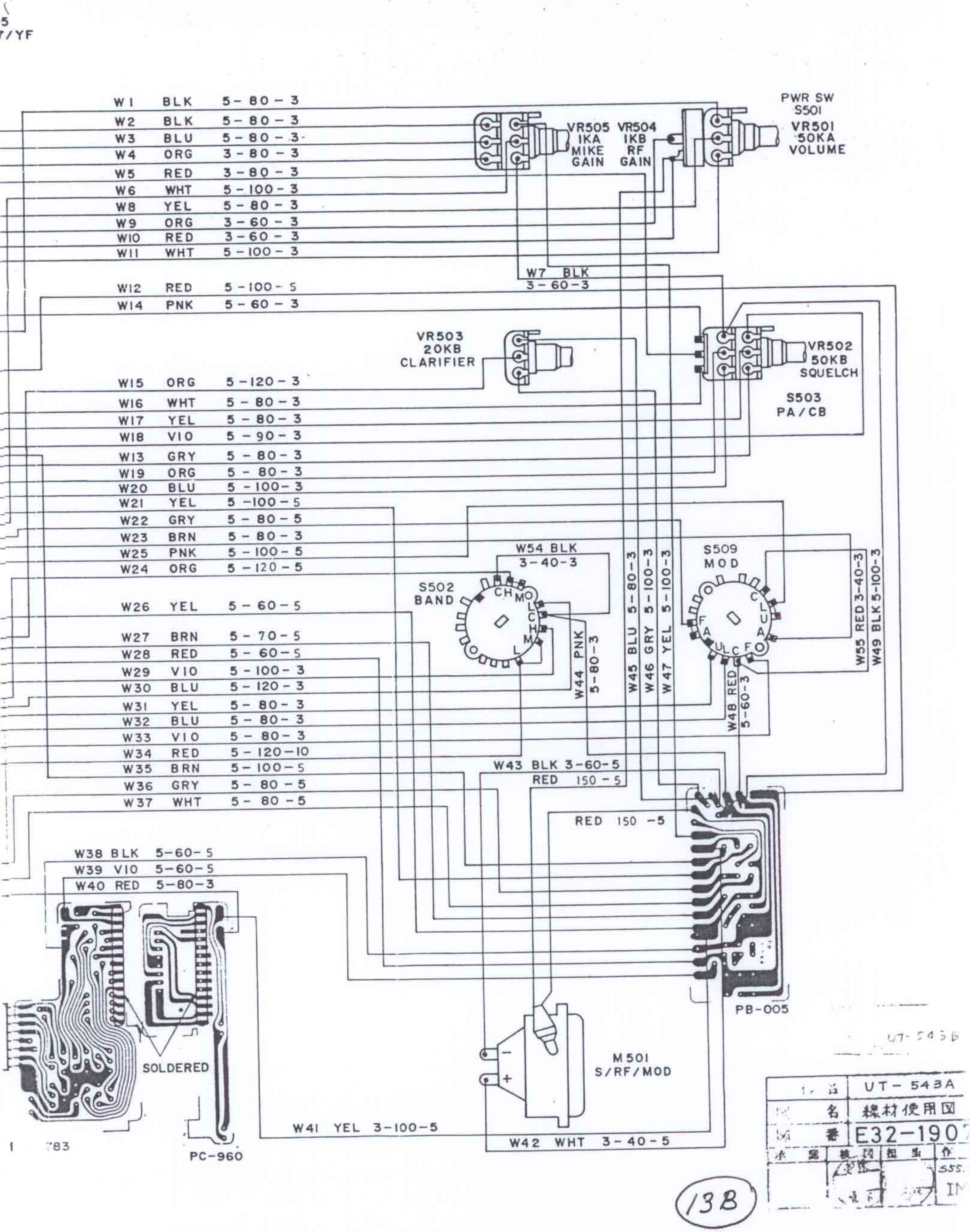
12B


SP501
W52 VIO 5-200-3
W51 VIO 5-200-3
TR47
2SB754(O)
HEAT SHINK
IC6
uPC1182H
TR39
2SA473(O)
PC-266
C505
0.0047/YF
W50 BLK 5-60-3
LUG
L503
LD033
J504
PWR
C508
0.01/YF
W53
3-6
J503
ANT
W10 10-100-10
LUG
D70 MV1Y
TR42
2SC2312C
TR41
2SC2312C
D69 MV1Y
LUG
TR43
2SC2166C
PC-999
LUG
W1 BLK 5-80-3
W2 BLK 5-80-3
W3 BLU 5-80-3
W4 ORG 3-80-3
W5 RED 3-80-3
W6 WHT 5-100-3
W8 YEL 5-80-3
W9 ORG 3-60-3
W10 RED 3-60-3
W11 WHT 5-100-3
W12 RED 5-100-5
W14 PNK 5-60-3
W15 ORG 5-120-3
W16 WHT 5-80-3
W17 YEL 5-80-3
W18 VIO 5-90-3
W13 GRY 5-80-3
W19 ORG 5-80-3
W20 BLU 5-100-3
W21 YEL 5-100-5
W22 GRY 5-80-5
W23 BRN 5-80-3
W25 PNK 5-100-5
W24 ORG 5-120-5
W26 YEL 5-60-5
W27 BRN 5-70-5
W28 RED 5-60-5
W29 VIO 5-100-3
W30 BLU 5-120-3
W31 YEL 5-80-3
W32 BLU 5-80-3
W33 VIO 5-80-3
W34 RED 5-120-10
W35 BRN 5-100-5
W36 GRY 5-80-5
W37 WHT 5-80-5
VR505 IKA MIKE GAIN
VR504 IKB RF GAIN
PWR SW S501
VR501 50KA VOLUME
W7 BLK 3-60-3
VR503 20KB CLARIFIER
VR502 50KB SQUELCH
S503 PA/CB
W54 BLK 3-40-3
S502 BAND
W44 PNK 5-80-3
W45 BLU 5-80-3
W46 GRY 5-100-3
W47 YEL 5-100-3
S509 MOD
W48 RED 5-60-3
W55 RED 3-40-3
W49 BLK 5-100-3
W43 BLK 3-60-5
RED 150-5
RED 150 -5
W38 BLK 5-60-5
W39 VIO 5-60-5
W40 RED 5-80-3
FC-1
WF-023
65-50-35
SOLDERED
PC-783
PC-960
SOLDERED
783
PC-960
W41 YEL 3-100-5
W42 WHT 3-40-5
M501
S/RF/MOD
PB-005
UT543Bを実用する場合
セット側の3Fコンセントの
接続が異る。
LUG
J405
PWR
C507
L503
L504
C508
UT-543B
UT-543A
名 線材使用図
番 E32-1907
IMI

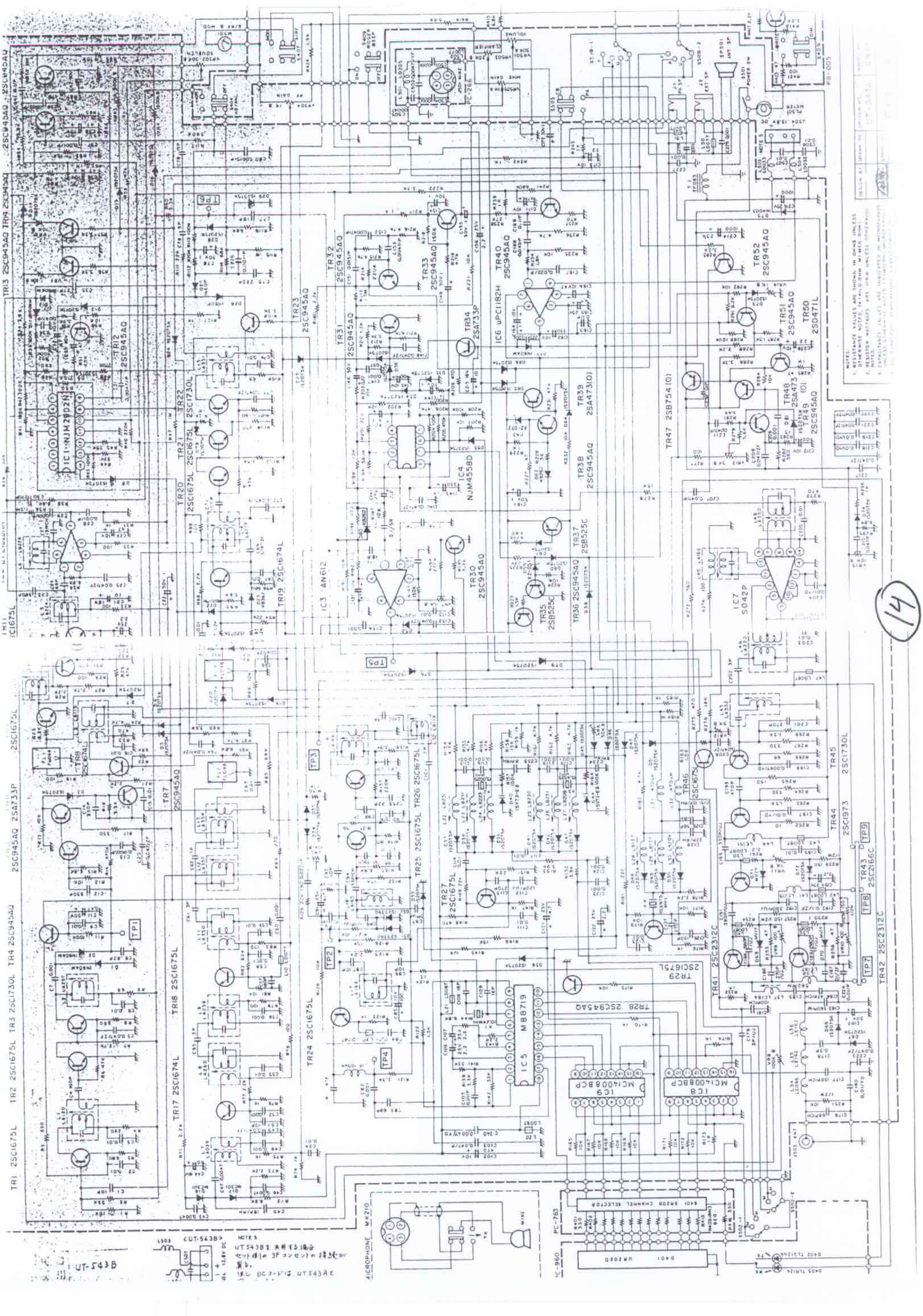
(13)

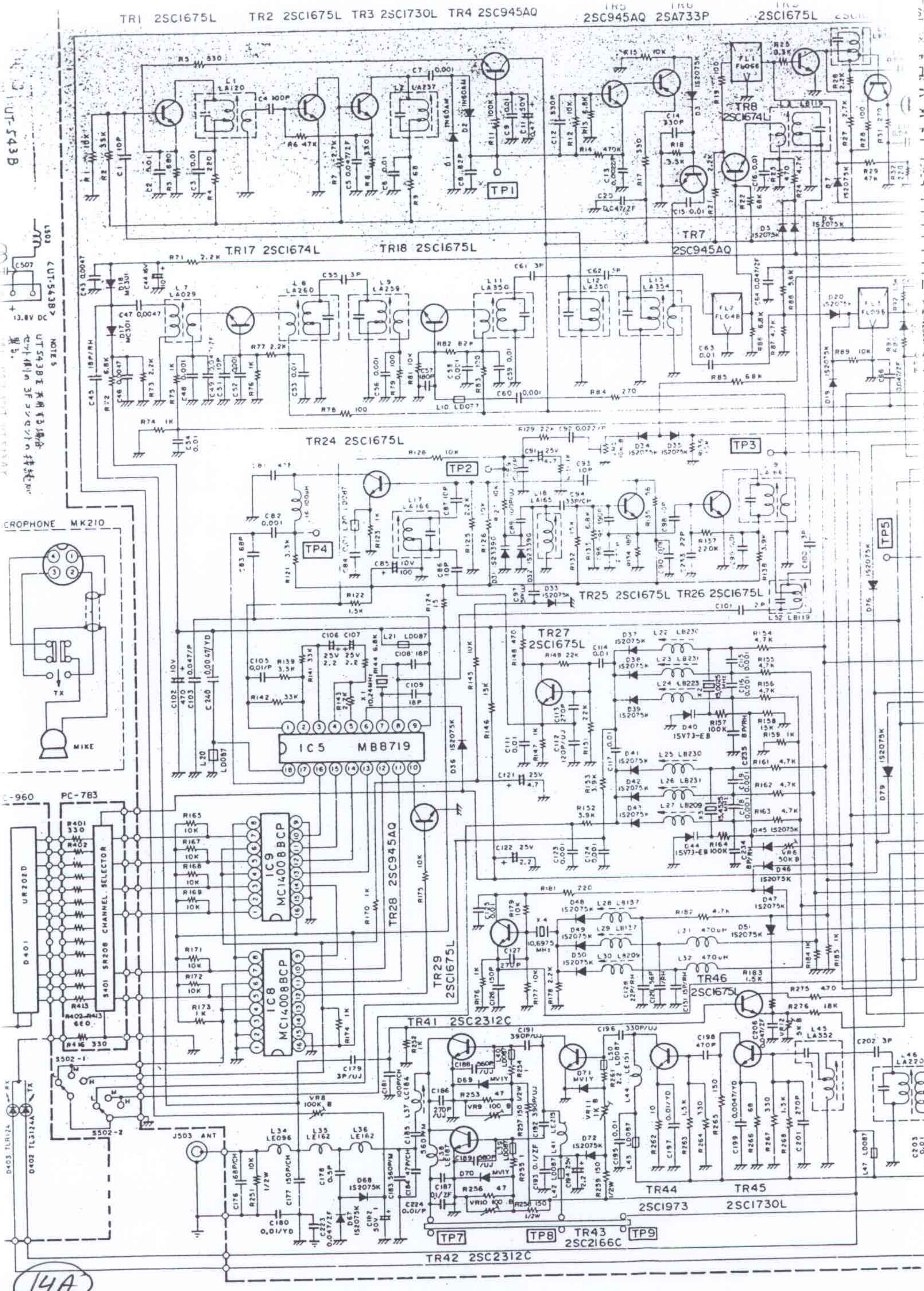


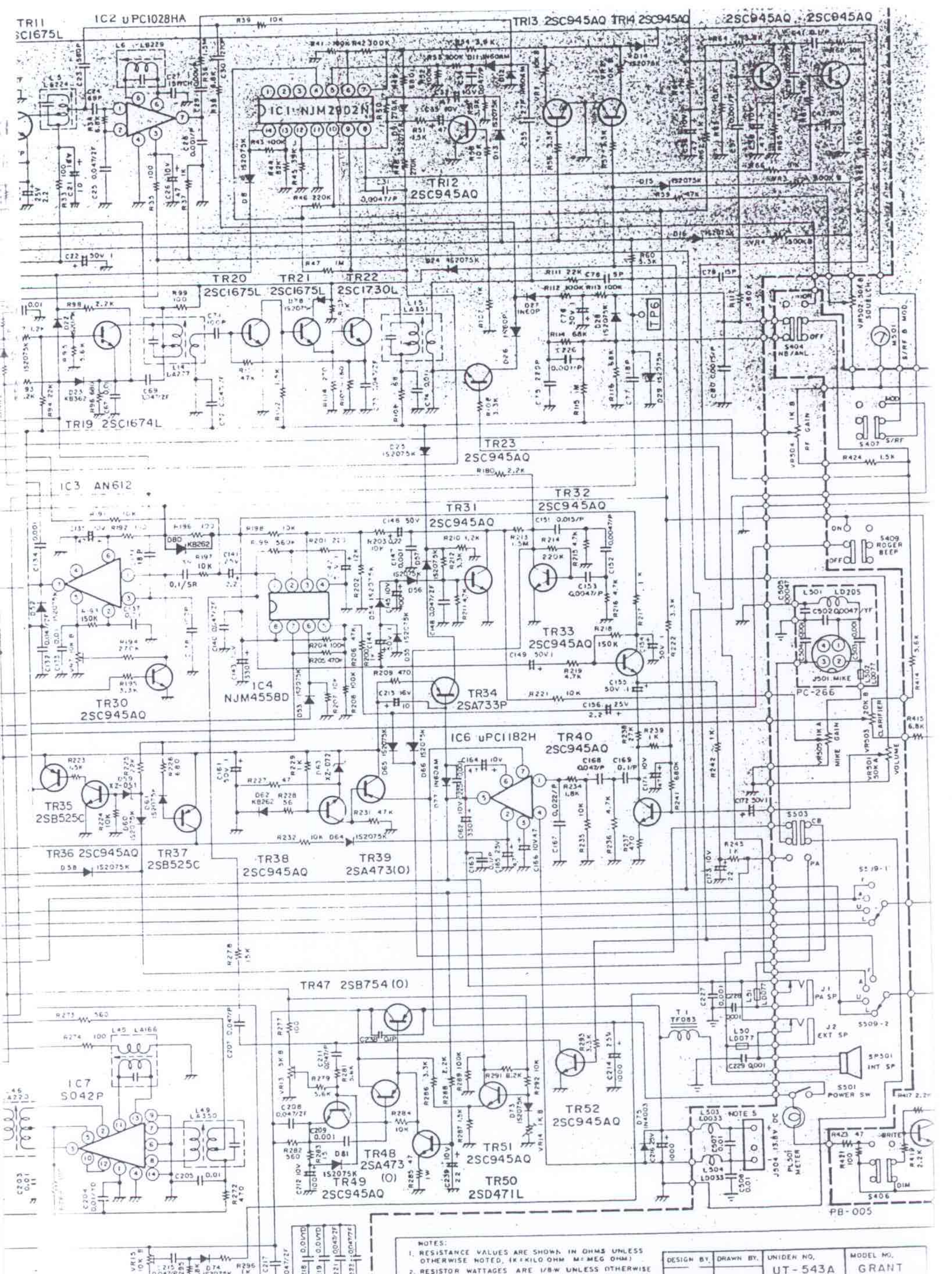
SP501
PC-266
C505
0.0047/YF
HEAT SHINK
TR47
2SB754(0)
IC6
uPC1182H
TR39
2SA473(0)
W52 V10 5-200-3
W51 V10 5-200-3
W50 BLK 5-60-3
※
LUG
L503
LD033
J504
PWR
C508
0.01/YF
W53
3-6
J503
ANT
LUG
D70 MV1Y
TR42
2SC2312C
TR41
2SC2312C
D69 MV1Y
LUG
TR43
2SC2166C
PC-999
LUG
FC-1
WF-023
6S-50-35
SOLDERED
PC-783
PC-960
W38
W39
W40
783
※
LUG
UT543B を使用する場合
セット側の 3F コンセントの
接続が異る.
J405
PWR
C507
L503
L504
C508



5
7/YF
W1 BLK 5-80-3
W2 BLK 5-80-3
W3 BLU 5-80-3
W4 ORG 3-80-3
W5 RED 3-80-3
W6 WHT 5-100-3
W8 YEL 5-80-3
W9 ORG 3-60-3
W10 RED 3-60-3
W11 WHT 5-100-3
W12 RED 5-100-5
W14 PNK 5-60-3
W15 ORG 5-120-3
W16 WHT 5-80-3
W17 YEL 5-80-3
W18 VIO 5-90-3
W13 GRY 5-80-3
W19 ORG 5-80-3
W20 BLU 5-100-3
W21 YEL 5-100-5
W22 GRY 5-80-5
W23 BRN 5-80-3
W25 PNK 5-100-5
W24 ORG 5-120-5
W26 YEL 5-60-5
W27 BRN 5-70-5
W28 RED 5-60-5
W29 VIO 5-100-3
W30 BLU 5-120-3
W31 YEL 5-80-3
W32 BLU 5-80-3
W33 VIO 5-80-3
W34 RED 5-120-10
W35 BRN 5-100-5
W36 GRY 5-80-5
W37 WHT 5-80-5
W38 BLK 5-60-5
W39 VIO 5-60-5
W40 RED 5-80-3
VR505 1KA MIKE GAIN
VR504 1KB RF GAIN
PWR SW S501
VR501 50KA VOLUME
W7 BLK 3-60-3
VR503 20KB CLARIFIER
VR502 50KB SQUELCH
S503 PA/CB
W54 BLK 3-40-3
S502 BAND
CH M L C H M L
S509 MOD
C L U A F A U L C F
W44 PNK 5-80-3
W45 BLU 5-80-3
W46 GRY 5-100-3
W47 YEL 5-100-3
W48 RED 5-60-3
W55 RED 3-40-3
W49 BLK 5-100-3
W43 BLK 3-60-5
RED 150-5
RED 150-5
PB-005
SOLDERED
783
PC-960
M501 S/RF/MOD
- +
W41 YEL 3-100-5
W42 WHT 3-40-5
UT-543B
UT-543A
名 線材使用図
番 E32-1907
13B




TR1 2SC1675L
TR2 2SC1675L
TR3 2SC1730L
TR4 2SC945AQ
2SC945AQ
2SA733P
2SC1675L
TR8 2SC1674L
TR7 2SC945AQ
TR17 2SC1674L
TR18 2SC1675L
TP1
TP2
TP3
TP4
TP5
TR24 2SC1675L
TR25 2SC1675L
TR26 2SC1675L
TR27 2SC1675L
IC5 MB8719
IC9 MC14008BCP
IC8 MC14008BCP
TR28 2SC945AQ
TR29 2SC1675L
TR41 2SC2312C
TR42 2SC2312C
TR43 2SC2166C
TR44 2SC1973
TR45 2SC1730L
TR46 2SC1675L
TP7
TP8
TP9
MICROPHONE MK210
MIKE
TX
PC-783
UR202D
D401
S401 SR208 CHANNEL SELECTOR
S502-1
S502-2
J503 ANT
UT-543B
13.8V DC
NOTES
UT543Bを使用する場合
セット側はJ503に接続。



NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR YF (MORE THAN

DESIGN BY.	DRAWN BY.	UNIDEN NO.	MODEL NO.
		UT-543A	GRANT
CHECK BY.	APPRO BY.	E12-1847	

1L

(14B)

MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO
UT543AN			

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

DATE 86 12 10
PAGE 001
HT86-014

LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
1		AT54 3ANBE	UT-543A(N)(E)	10-00000	1				
2		AT54 3ANBEA	UT-543A(N) MAIN PCB ASS'Y		1				
3		BCCC 8110152	CAPACITOR:CERAMIC 100PF 50V K CH	C181	1				T
3		BCCC 8115052	CAPACITOR:CERAMIC 15PF 50V K CH	C027	1				T
3		BCCC 8115152	CAPACITOR:CERAMIC 150PF 50V K CH	C177	1				T
3		BCCC 8133052	CAPACITOR:CERAMIC 33PF 50V K CH	C094	1				T
3		BCCC 8147052	CAPACITOR:CERAMIC 47PF 50V K CH	C184	1				T
3		BCCC 8168052	CAPACITOR:CERAMIC 68PF 50V K CH	C176	1				T
3		BCCG 8110022	CAPACITOR:CERAMIC 10PF 50V D SL	C001 C051 C086 C087 C093 C098	6				T
3		BCCG 8110152	CAPACITOR:CERAMIC 100PF 50V K SL	C004 C071 C138	3				T
3		BCCG 8115052	CAPACITOR:CERAMIC 15PF 50V K SL	C079	1				T
3		BCCG 8115152	CAPACITOR:CERAMIC 150PF 50V K SL	C126	1				T
3		BCCG 8118052	CAPACITOR:CERAMIC 18PF 50V K SL	C077 C108 C109 C136	4				T
3		BCCG 8118152	CAPACITOR:CERAMIC 180PF 50V K SL	C057	1				T
3		BCCG 8120912	CAPACITOR:CERAMIC 2PF 50V C SL	C101	1				T
3		BCCG 8122052	CAPACITOR:CERAMIC 22PF 50V K SL	C233	1				T
3		BCCG 8122152	CAPACITOR:CERAMIC 220PF 50V K SL	C075	1				T
3		BCCG 8127052	CAPACITOR:CERAMIC 27PF 50V K SL	C035	1				T
3		BCCG 8127152	CAPACITOR:CERAMIC 270PF 50V K SL	C030 C096 C113 C127 C201	5				T
3		BCCG 8130912	CAPACITOR:CERAMIC 3PF 50V C SL	C055 C061 C062 C100 C202	5				T
3		BCCG 8133152	CAPACITOR:CERAMIC 330PF 50V K SL	C012 C014	2				T
3		BCCG 8139152	CAPACITOR:CERAMIC 390PF 50V K SL	C095	1				T
3		BCCG 8147052	CAPACITOR:CERAMIC 47PF 50V K SL	C081	1				T
3		BCCG 8147152	CAPACITOR:CERAMIC 470PF 50V K SL	C193	1				T
3		BCCG 8150812	CAPACITOR:CERAMIC 0.5PF 50V C SL	C173	1				T

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MFR'S MODEL CODE	CUSTOMER		REVISION NOTE NO.
UT543AN	MODEL		

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

DATE 86 12 10
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HT86-014

LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
3		BCCG 8150922Z	CAPACITOR:CERAMIC 5PF 50V D SL	C078	1				T
3		BCCG 8156151Z	CAPACITOR:CERAMIC 560PF 50V K SL	C023	1				T
3		BCCG 8168051Z	CAPACITOR:CERAMIC 68PF 50V K SL	C024 C083	2				T
3		BCCG 8182051Z	CAPACITOR:CERAMIC 82PF 50V K SL	C008	1				T
3		BCCR 8115051Z	CAPACITOR:CERAMIC 15PF 50V K RH	C131	1				T
3		BCCR 8118051Z	CAPACITOR:CERAMIC 18PF 50V K RH	C045	1				T
3		BCCR 8122051Z	CAPACITOR:CERAMIC 22PF 50V K RH	C128	1				T
3		BCCR 8156051Z	CAPACITOR:CERAMIC 56PF 50V K RH	C129	1				T
3		BCCR 8180922Z	CAPACITOR:CERAMIC 8PF 50V D RH	C234 C235	2				T
3		BCCU 8110151Z	CAPACITOR:CERAMIC 100PF 50V K UJ	C088	1				T
3		BCCU 8112151Z	CAPACITOR:CERAMIC 120PF 50V K UJ	C112	1				T
3		BCCU 8127151Z	CAPACITOR:CERAMIC 270PF 50V K UJ	C186	1				T
3		BCCU 8130911Z	CAPACITOR:CERAMIC 3PF 50V C UJ	C179	1				T
3		BCCU 8133151Z	CAPACITOR:CERAMIC 330PF 50V K UJ	C196	1				T
3		BCCU 8139151Z	CAPACITOR:CERAMIC 390PF 50V K UJ	C191 C192	2				T
3		BCCU 8150922Z	CAPACITOR:CERAMIC 5PF 50V D UJ	C097	1				T
3		BCCU 8156151Z	CAPACITOR:CERAMIC 560PF 50V K UJ	C188 C189	2				T
3		BCDC 8156167Z	CAPACITOR:SILVERED MICA 560PF 50V M	C183 C185	2				J
3		BCEE 8122867Z	CAPACITOR:ELECTROLYTIC 0.22UF 50V M C-061	C146	1				N
3		BCEL 1110102Z	CAPACITOR:ELECTROLYTIC 100UF 10V	C085 C145 C212	3				T
3		BCEL 1122002Z	CAPACITOR:ELECTROLYTIC 22UF 10V	C042 C173 C239	3				T
3		BCEL 1133102Z	CAPACITOR:ELECTROLYTIC 330UF 10V	C143 C162	2				T
3		BCEL 1147002Z	CAPACITOR:ELECTROLYTIC 47UF 10V	C026 C032 C033 C036 C038 C135 C164 C166 C171	9				T
3		BCEL 11[illegible]7102Z	CAPACITOR:ELECTROLYTIC 470UF 10V	C102	1				T

(16)

MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO
UT543AN			

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

DATE 86.12.10
PAGE 003
HT86-014

LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	SAFETY	REMARKS
3		BCEL 311000Z	CAPACITOR:ELECTROLYTIC 10UF 16V	C021 C044 C213	3			T
3		BCEL 511020Z	CAPACITOR:ELECTROLYTIC 1000UF 25V	C214 C216	2			T
3		BCEL 512290Z	CAPACITOR:ELECTROLYTIC 2.2UF 25V	C019 C106 C107 C122 C141 C156 C194	7			T
3		BCEL 514790Z	CAPACITOR:ELECTROLYTIC 4.7UF 25V	C091 C121 C165	3			T
3		BCEL 811090Z	CAPACITOR:ELECTROLYTIC 1UF 50V	C022 C076 C142 C144 C149 C154 C155 C161 C172 C182	10			T
3		BCEL 814780Z	CAPACITOR ELECTROLYTIC 0.47UF 50V	C011	1			T
3		BCGC 511045Z	CAPACITOP:SEMI-CONDUCTOR(SR) 0.1UF 25V K	C139	1			N
3		BCKC 511040Z	CAPACITOR:CERAMIC 0.1UF 25V Z ZF	C187 C193	2			T
3		BCKC 514730Z	CAPACITOR:CERAMIC 0.047UF 25V Z ZF	C005 C017 C020 C025 C049 C064 C066 C069 C072 C073 C132 C140 C148 C206 C208 C217 C221 C222 C223	19			T
3		BCKD 811036Z	CAPACITOR:CERAMIC 0.01UF 50V M YD	C180 C197 C204 C218 C219	5			T
3		BCKD 814726Z	CAPACITOR:CERAMIC 0.0047UF 50V M YD	C199 C240	2			T
3		BCKG 811020Z	CAPACITOR:CERAMIC 0.001UF 50V Z YF	C007 C048 C052 C056 C058 C060 C082 C115 C116 C118 C119 C123 C124 C134 C147 C209 C225 C227 C228 C229	20			T
3		BCKG 811030Z	CAPACITOR:CERAMIC 0.01UF 50V Z YF	C002 C003 C006 C009 C015 C016 C053 C054 C059 C063 C065 C067 C074 C084 C090 C099 C111 C114 C117 C125 C133 C137 C195 C203 C205	25			T

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BILL OF MATERIAL

MFR S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO.
UT543AN			

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

DATE 86 12 10
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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.			QTY/SET	DELIVERY	SAFTY	REMARKS	
3		BCKG 8147207	CAPACITOR:CERAMIC 0.0047UF 50V Z YF	C043	C046	C047	3				T
3		BCQM 8110257	CAPACITOR:MYLAR 0.001UF 50V K	C028 C226	C029	C037	4				N
3		BCQM 8110357	CAPACITOR:MYLAR 0.01UF 50V K	C089	C105	C224	3				N
3		BCQM 8110457	CAPACITOR:MYLAR 0.1UF 50V K	C041 C238	C163	C169	4				N
3		BCQM 8115257	CAPACITOR:MYLAR 0.0015UF 50V K	C080			1				N
3		BCQM 8115357	CAPACITOR:MYLAR 0.015UF 50V K	C151			1				N
3		BCQM 8122257	CAPACITOR:MYLAR 0.0022UF 50V K	C013			1				N
3		BCQM 8122357	CAPACITOR:MYLAR 0.022UF 50V K	C039	C092	C167	3				N
3		BCQM 8147257	CAPACITOR:MYLAR 0.0047UF 50V K	C031	C152	C153	3				N
3		PCQM 8147357	CAPACITOR:MYLAR 0.047UF 50V K	C018 C168	C034 C207	C103 C211					N
				C215			7				
3		BDAY 0001001	DIODE 1N60 AM	D001 D012	D002 D077	D011	5				T
3		BDAY 0001002	DIODE 1N60 P	D026	D027		2				T
3		BDAY 0020004	DIODE:ZENER XZ-051	D059			1				T
3		BDAY 0020012	DIODE:ZENER XZ-072	D063			1				T
3		BDAY 0030001	DIODE 1S2339G	D031	D032		2				T
3		BDAY 0063001	DIODE 1S2075K	D003 D007	D005 D008	D006 D009					T
				D013 D016	D014 D019	D015 D020					
				D021 D025	D022 D028	D024 D029					
				D033 D036	D034 D037	D035 D038					
				D039 D043	D041 D045	D042 D046					
				D047 D050	D048 D051	D049 D052					
				D053 D056	D054 D057	D055 D058					
				D060 D066	D064 D067	D065 D068					
				D072 D076	D073 D078	D074 D079					

(10)

MFR'S MODEL CODE	CUSTOMER		REVISION NOTE NO.
UT543AN	MODEL		

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

DATE 86 12 10
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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.			QTY/SET	DELIVERY	SAFETY	REMARKS	
				D081			55				
3		BDAY 0090001	DIODE MC-301	D017	D018		2				T
3		BDAY 0133001	DIODE 1N4003	D075			1				N
3		BDAY 0220001	DIODE 1SV73-EB	D040	D044		2				T
3		BDBA 0733115	TRANSISTOR DB-003 2SA733-P	TR006			1				T
3		BDBC 0945507	TRANSISTOR DB-224 2SC945A-Q	TR004	TR005	TR007					T
				TR012	TR013	TR014					
				TR015	TR016	TR023					
				TR028			10				
3		BDBC 1674111	TRANSISTOR DB-295 2SC1674-L	TR008	TR017	TR019	3				T
3		BDBC 1675111	TRANSISTOR DB-259 2SC1675-L	TR001	TR002	TR009					T
				TR010	TR011	TR018					
				TR020	TR021	TR024					
				TR025	TR026	TR027	12				
3		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR003	TR022		2				T
3		BDEY 0101001	INTEGRATED CIRCUIT MB8719	IC005			1				T
3		BDEY 0130001	INTEGRATED CIRCUIT AN612	IC003			1				T
3		BDEY 0132001	INTEGRATED CIRCUIT S042P	IC007			1				N
3		BDEY 0145001	INTEGRATED CIRCUIT NJM4558D	IC004			1				T
3		BDEY 0196002	INTEGRATED CIRCUIT UPC1028HA	IC002			1				T
3		BDEY 0250001	INTEGRATED CIRCUIT MC14008BCP	IC008	IC009		2				T
3		BDEY 0312001	INTEGRATED CIRCUIT NJM2902N	IC001			1				T
3		BDFY 0004002	VARISTOR KB-262	D062	D080		2				T
3		BDFY 0004003	VARISTOR KB-362	D027	D061		2				T
3		BFLY 0048001	FILTER:CERAMIC FL-048 SFE10.7MS2-M	FL002			1				N
3		BFLY 0066001	FILTER:CERAMIC FL-066 CFW455HT	FL001			1				N
3		BFLY 0096001	FILTER:CRYSTAL FL-096 MF10J02	FL003			1				N
3		BJKY 0089001	JACK JK-089 HSJ0615	J001	J002		2				T
3		BLAY 0029001	COIL LA-029 TKXN-22160BU	L007			1				N

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MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO
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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
3		BLAY 0120001	COIL LA-120 TKAC-24073F	L001	1				N
3		BLAY 0165001	COIL LA-165 VTKXNA-XT23120-TW	L018	1				N
3		BLAY 0166001	COIL LA-166 TKXC-18501N	L017 L019 L048	3				N
3		BLAY 0220001	COIL LA-220 TKXC-24279UH	L046	1				N
3	N	BLAY 0237001	COIL LA-237 TKAC-27871Y	L002	1				N
3		BLAY 0259001	COIL LA-259 TKXC-25117AN	L009	1				N
3		BLAY 0260001	COIL LA-260 TKXC-25114N	L008	1				N
3		BLAY 0277001	COIL LA-277 TKAC-25365N	L014	1				N
3		BLAY 0350001	COIL LA-350 TKAC-27242A	L011 L012 L049	3				N
3		BLAY 0351001	COIL LA-351 TKAC-27241A	L015	1				N
3		BLAY 0352001	COIL LA-352 TKXC-27205BZD	L045	1				N
3	N	BLAY 0354001	COIL LA-354 TKAC-27869N	L013	1				N
3		BLBY 0119001	COIL LB-119 119LC-13656A	L003 L052	2				N
3		BLBY 0137001	COIL LB-137 113CN-6344Z	L028 L029	2				N
3		BLBY 0209001	COIL LB-209 113CN-6485Z	L027 L030	2				N
3		BLBY 0223001	COIL LB-223 113CN-6514X	L024	1				N
3	N	BLBY 0224001	COIL LB-224 7MC-7172 ABW	L004 L005	2				N
3	N	BLBY 0229001	COIL LB-229 7MC-7174Y	L006	1				N
3	N	BLBY 0230001	COIL LB-230 113CN-6539X	L022 L025	2				N
3	N	BLBY 0231001	COIL LB-231 113CN-6538X	L023 L026	2				N
3		BLCY 0184001	COIL LC-184 2.5T.D0.6UEW	L037	1				J
3		BLDY 0077001	COIL LD-077 BF03-1.8*5*0.7	L010 L050 L051	3				N
3		BLDY 0087001	COIL LD-087 BF04-3*5*1	L020 L021 L039 L040 L042 L043 L047 L054	8				N
3		BLEY [illegible]	COIL LE-196 8 1/2T	L034	1				N

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MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO
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BILL OF MATERIAL

A UL -C	E SAA-C	I VDE-C
B UL	F SAA	J VDE
C CSA-C	G BS -C	
D CSA	H BS	

-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.			QTY/SET	DELIVERY	SAFETY	REMARKS	
3		BLEY 0151001	COIL LE-151 C-7931 D4.0 6 1/2T	L044			1				N
3	N	BLEY 0162001	COIL LE-162 D6.0 4 1/2T	L035	L036		2				N
3		BLEY 0187001	COIL LE-187 D4.0 7T	L038			1				N
3	N	BLEY 0215001	COIL LE-215 D3.0 4T	L041			1				N
3		BLZY 0016101	INDUCTOR:MOLDED LZ-016 SL0609-101K 100UH	L016			1				N
3		BLZY 0016471	INDUCTOR:MOLDED LZ-016 SL0609-471K 470UH	L031	L032		2				N
3	N	BPCY 0999ABZ	PC BOARD:MAIN PC-999AB	PC001			1				N
3		BQXY 0077001	CRYSTAL QX-077 10.240	X001			1				N
3		BQXY 0122002	CRYSTAL QX-122 10.6975	X004			1				N
3	N	BQXY 0131010	CRYSTAL QX-131 15.0025	X002			1				N
3	N	BQXY 0131011	CRYSTAL QX-131 15.4525	X003			1				N
3		BRPB 1210342	RESISTOR:CARBON AXIAL LEAD 10K 1/2W J	R251			1				N
3		BRPB 1215142	RESISTOR:CARBON AXIAL LEAD 150 1/2W J	R257	R258	R259	3				N
3		BRPB 1810142	RESISTOR:CARBON AXIAL LEAD 100 1/8W J	R033	R192	R277	3				N
3		BRPB 1810242	RESISTOR:CARBON AXIAL LEAD 1K 1/8W J	R062	R075	R217	3				N
3		BRPB 1810342	RESISTOR:CARBON AXIAL LEAD 10K 1/8W J	R058 R145 R198	R089 R168 R232	R127 R197 R292	9				N
3		BRPB 1810942	RESISTOR:CARBON AXIAL LEAD 1 1/8W J	R254	R255		2				N
3		BRPB 1815242	RESISTOR:CARBON AXIAL LEAD 1.5K 1/8W J	R051	R268		2				N
3		BRPB 1818342	RESISTOR:CARBON AXIAL LEAD 18K 1/8W J	R276			1				N
3		BRPB 1822142	RESISTOR:CARBON AXIAL LEAD 220 1/8W J	R181			1				N
3		BRPB 1822442	RESISTOR:CARBON AXIAL LEAD 220K 1/8W J	R046			1				N
3		BRPB 1822942	RESISTOR:CARBON AXIAL LEAD 2.2 1/8W J	R261			1				N
3		BRPB 1827142	RESISTOR:CARBON AXIAL LEAD 270 1/8W J	R084			1				N
3		BRPB 1827[illegible]42	RESISTOR:CARBON AXIAL LEAD 270K 1/8W J	R05[illegible]			1				N

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MFR S MODEL CODE	CUSTOMER		REVISION NOTE NO
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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C: CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	SAFTY	REMARKS	
3		BRPB 1833247Z	RESISTOR:CARBON AXIAL LEAD 3.3K 1/8W J	R060 R121 R212 R293	4				N
3		BRPB 1839247Z	RESISTOR:CARBON AXIAL LEAD 3.9K 1/8W J	R054 R152	2				N
3		BRPB 1839347Z	RESISTOR:CARBON AXIAL LEAD 39K 1/8W J	R045	1				N
3		BRPB 1847247Z	RESISTOR:CARBON AXIAL LEAD 4.7K 1/8W J	R024	1				N
3		BRPB 1847347Z	RESISTOR:CARBON AXIAL LEAD 47K 1/8W J	R029	1				N
3		BRPB 1856247Z	RESISTOR:CARBON AXIAL LEAD 5.6K 1/8W J	R279	1				N
3		BRPB 1868047Z	RESISTOR:CARBON AXIAL LEAD 68 1/8W J	R009 R106	2				N
3		BRPB 1868147Z	RESISTOR:CARBON AXIAL LEAD 680 1/8W J	R049 R091 R226	3				N
3		BRSJ 1047057Z	RESISTOR:METAL OXIDE 47 1W K	R285	1				N
3		BRUB 1810047Z	RESISTOR:CARBON FORMED VERT 10 1/8W J	R262	1				N
3		BRUB 1810147Z	RESISTOR:CARBON FORMED VERT 100 1/8W J	R019 R028 R035 R078 R079 R083 R099 R196 R269 R274	10				N
3		BRUB 1810247Z	RESISTOR:CARBON FORMED VERT 1K 1/8W J	R037 R065 R066 R074 R076 R103 R107 R123 R131 R147 R150 R170 R173 R174 R176 R184 R185 R200 R229 R230 R242 R243 R252 R296	24				N
3		BRUB 1810347Z	RESISTOR:CARBON FORMED VERT 10K 1/8W J	R001 R012 R015 R039 R067 R068 R069 R081 R126 R128 R136 R165 R167 R169 R171 R172 R175 R177 R179 R191 R203 R207 R221 R224 R235 R284	26				N
3		BRUB 1810447Z	RESISTOR:CARBON FORMED VERT 100K 1/8W J	R011 R041 R042 R043 R052 R053 R112 R113 R157 R164 R204 R208 R229	13				N
3		BRUB 1810547Z	RESISTOR:CARBON FORMED VERT 1M 1/8W J	R047 R115	2				N

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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO			QTY/SET	DELIVERY	SAFETY	REMARKS	
3		BRUB 1812247Z	RESISTOR:CARBON FORMED VERT 1.2K 1/8W J	R097	R210		2				N
3		BRUB 1812347Z	RESISTOR:CARBON FORMED VERT 12K 1/8W J	R202			1				N
3		BRUB 1815047Z	RESISTOR:CARBON FORMED VERT 15 1/8W J	R124	R283		2				N
3		BRUB 1815147Z	RESISTOR:CARBON FORMED VERT 150 1/8W J	R105	R265		2				N
3		BRUB 1815247Z	RESISTOR:CARBON FORMED VERT 1.5K 1/8W J	R092 R183	R102 R223	R122 R263					N
				R287			7				
3		BRUB 1815347Z	RESISTOR:CARBON FORMED VERT 15K 1/8W J	R132 R278	R146	R158	4				N
3		BRUB 1815447Z	RESISTOR:CARBON FORMED VERT 150K 1/8W J	R193	R218		2				N
3		BRUB 1815547Z	RESISTOR:CARBON FORMED VERT 1.5M 1/8W J	R036	R213		2				N
3		BRUB 1818147Z	RESISTOR:CARBON FORMED VERT 180 1/8W J	R134			1				N
3		BRUB 1818247Z	RESISTOR:CARBON FORMED VERT 1.8K 1/8W J	R234			1				N
3		BRUB 1822147Z	RESISTOR:CARBON FORMED VERT 220 1/8W J	R004	R032	R201	3				N
3		BRUB 1822247Z	RESISTOR:CARBON FORMED VERT 2.2K 1/8W J	R021 R073	R026 R077	R071 R098					N
				R125 R180	R143 R288	R178	11				
3		BRUB 1822347Z	RESISTOR:CARBON FORMED VERT 22K 1/8W J	R094 R149	R111 R151	R129 R225	6				N
3		BRUB 1822447Z	RESISTOR:CARBON FORMED VERT 220K 1/8W J	R137	R214		2				N
3		BRUB 1827147Z	RESISTOR:CARBON FORMED VERT 270 1/8W J	R031	R104		2				N
3		BRUB 1827247Z	RESISTOR:CARBON FORMED VERT 2.7K 1/8W J	R007	R027		2				N
3		BRUB 1827347Z	RESISTOR:CARBON FORMED VERT 27K 1/8W J	R238			1				N
3		BRUB 1827447Z	RESISTOR:CARBON FORMED VERT 270K 1/8W J	R048	R194		2				N
3		BRUB 1833147Z	RESISTOR:CARBON FORMED VERT 330 1/8W J	R005 R264	R008 R267	R017	5				N
3		BRUB 1833247Z	RESISTOR:CARBON FORMED VERT 3.3K 1/8W J	R018 R057	R025 R064	R056 R108					N
				R139 R286	R195	R222	10				
3		BRUB 1833347Z	RESISTOR:CARBON FORMED VERT 33K 1/8W J	R002	R141	R142	3				N
3		BRUB 1839247Z	RESISTOR:CARBON FORMED VERT 3.9K 1/8W J	R055	R138	R153	3				N

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MFR'S MODEL CODE	CUSTOMER		REVISION NOTE NO.
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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C: CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO			QTY/SET	DELIVERY	SAFTY	REMARKS	
3		BRUB 1847047Z	RESISTOR:CARBON FORMED VERT 47 1/8W J	R227	R253	R256	3				N
3		BRUB 1847147Z	RESISTOR:CARBON FORMED VERT 470 1/8W J	R023 R209	R067 R237	R148 R272					N
				R275			7				
3		BRUB 1847247Z	RESISTOR:CARBON FORMED VERT 4.7K 1/8W J	R087 R156	R154 R161	R155 R162					N
				R163 R215	R182 R216	R211 R219					
				R236			13				
3		BRUB 1847347Z	RESISTOR:CARBON FORMED VERT 47K 1/8W J	R006 R101	R059 R206	R061 R231	6				N
3		BRUB 1847447Z	RESISTOR:CARBON FORMED VERT 470K 1/8W J	R014	R205		2				N
3		BRUB 1856047Z	RESISTOR:CARBON FORMED VERT 56 1/8W J	R135	R228		2				N
3		BRUB 1856147Z	RESISTOR:CARBON FORMED VERT 560 1/8W J	R273	R282		2				N
3		BRUB 1856247Z	RESISTOR:CARBON FORMED VERT 5.6K 1/8W J	R088	R095	R281	3				N
3		BRUB 1856447Z	RESISTOR:CARBON FORMED VERT 560K 1/8W J	R117	R199		2				N
3		BRUB 1868047Z	RESISTOR:CARBON FORMED VERT 68 1/8W J	R266			1				N
3		BRUB 1868147Z	RESISTOR:CARBON FORMED VERT 680 1/8W J	R003	R096		2				N
3		BRUB 1868247Z	RESISTOR:CARBON FORMED VERT 6.8K 1/8W J	R013 R072	R034 R086	R038 R133					N
				R144	R295		8				
3		BRUB 1868347Z	RESISTOR:CARBON FORMED VERT 68K 1/8W J	R022 R116	R085	R114	4				N
3		BRUB 1868447Z	RESISTOR:CARBON FORMED VERT 680K 1/8W J	R241			1				N
3		BRUB 1882247Z	RESISTOR:CARBON FORMED VERT 8.2K 1/8W J	R093	R291		2				N
3		BRUB 1882347Z	RESISTOR:CARBON FORMED VERT 82K 1/8W J	R044	R032		2				N
3		BTFY 0083001	TRANSFORMER:AF CHOKE TF-083	T001			1				N
3		BTPY 0044001	TERMINAL:CHECK POINT TP-044	TP008	TP009	TP010	3				T
3		BYYY 0052001	JUMPER WIRE YY-052 5.0MM	JP012 JP025	JP014 JP026	JP021 JP034					N
				JP037 JP045	JP043 JP049	JP044 JP053	12				
3		BYYY [illegible]	JUMPER WIRE [illegible] 7.5MM	JP017 JP028	JP020 JP029	JP027 JP033					N

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B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C: CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	SAFTY	REMARKS	
				JP038 JP047 JP052 JP054 JP057	11				
3		BYYY 0052003	JUMPER WIRE YY-052 10.0MM	JP002 JP009 JP016 JP031 JP036 JP042 JP050 JP051 JP060	9				N
3		BYYY 0052004	JUMPER WIRE YY-052 12.5MM	JP007 JP018 JP039 JP040 JP046 JP055	6				N
3		BYYY 0052005	JUMPER WIRE YY-052 15.0MM	JP006 JP019 JP030 JP035 JP041	5				N
3		BYYY 0052006	JUMPER WIRE YY-052 17.5MM	JP005 JP032	2				N
3		BYYY 0052007	JUMPER WIRE YY-052 20.0MM	JP004 JP022 JP023	3				N
3		BYYY 0052008	JUMPER WIRE YY-052 22.5MM	JP008	1				N
3		BYYY 0052009	JUMPER WIRE YY-052 25.0MM	JP001 JP003	2				N
3		BYYY 0052010	JUMPER WIRE YY-052 27.5MM	JP010 JP015	2				N
3		BYYY 0052012	JUMPER WIRE YY-052 2.5MM	JP013	1				N
3		BDBA 0473114	TRANSISTOR DB-028 2SA473-O	TR048	1				T
3		BDBA 0733115	TRANSISTOR DB-003 2SA733-P	TR034	1				T
3		BDBB 0525103	TRANSISTOR DB-106 2SB525-C	TR035 TR037	2				N
3		BDBC 0945507	TRANSISTOR DB-224 2SC945A-Q	TR030 TR031 TR032 TR033 TR036 TR038 TR040 TR049 TR051 TR052	10				T
3		BDBC 1675111	TRANSISTOR DB-259 2SC1675-L	TR029 TR046	2				T
3		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR045	1				T
3		BDBC 1973115	TRANSISTOR DB-272 2SC1973-SSP	TR044	1				T
3		BDBD 0471111	TRANSISTOR DB-411 2SD471-L	TR050	1				T
3		BRTY 0182101	RESISTOR:SEMI-FIXED RT-182 TT24R 100R	VR009 VR010	2				T
3		BRTY 0182102	RESISTOR:SEMI-FIXED RT-182 TT24R 1KB	VR011 VR014	2				T
3		BRTY 0182103	RESISTOR:SEMI-FIXED RT-182 TT24R 10KB	VR001 VR002 VR005 VR007 VR015	5				T
3		BRTY 0182104	RESISTOR:SEMI-FIXED RT-182 TT24R 100KB	VR008	1				T
3		BRTY 0182502	RESISTOR:SEMI-FIXED RT-182 TT24R 5KB	VR012 VR017	[illegible]				T

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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C: CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	SAFTY	REMARKS	
3		BRTY 0182503	RESISTOR:SEMI-FIXED RT-182 TT24R 50KB	VR006	1				T
3		BRTY 0182504	RESISTOR:SEMI-FIXED RT-182 TT24R 500KB	VR003 VR004	2				T
2		AT54 3ANBEY	UT-543A(N)(E) PARTS	85-00000	1				
3		BCKG 8110202	CAPACITOR:CERAMIC 0.001UF 50V Z YF	C503 C504	2				T
3		BCKG 8110302	CAPACITOR:CERAMIC 0.01UF 50V Z YF	C507 C508	2				T
3		BCKG 8147202	CAPACITOR:CERAMIC 0.0047UF 50V Z YF	C502 C505	2				T
3		BDAY 0100001	DIODE:LED TLR-124	D403	1				T
3		BDAY 0113002	DIODE:LED UR-202D	D401	1				T
3		BDAY 0116001	DIODE:LED TLG-124A	D402	1				T
3		BDBA 0473114	TRANSISTOR DB-023 2SA473-O	TR039	1				T
3	N	BDBB 0754114	TRANSISTOR DB-110 2SB754-O	TR047	1				T
3		BDBC 0945507	TRANSISTOR DB-224 2SC945A-O	TR401	1				T
3		BDBC 2166103	TRANSISTOR DB-331 2SC2166-C	TR043	1				T
3	N	BDBC 2312103	TRANSISTOR DB-332 2SC2312-C	TR041 TR042	2				T
3		BDEY 0149001	INTEGRATED CIRCUIT UPC1182H	IC006	1				T
3		BDFY 0020001	VARISTOR MV-1Y	D069 D070 D071	3				J
3		BFSY 0014609	FUSE FS-014 4A	F001	1				N
3		BJKY 0052002	JACK JK-052 BLACK	J502	1				N
3		BJKY 0068002	JACK W/O LUG JK-068 N-7512	J503	1			HT86-014 B A253	N
3		BJKY 0087001	JACK JK-087 4S-L-02	J501	1				T
3		BLDY 0033001	COIL LD-033	L503 L504	2				N
3		BLDY 0077001	COIL LD-077 EF33-1.8*5*0.7	L502	1				N
3		BLDY 0089001	COIL LD-089	L501	1				N
3		BMKY 0221001	MICROPHONE MK-221	MK001	1				N
3		BMTY [illegible]	METER [illegible]	M501	1				N

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BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.			QTY/SET	DELIVERY	SFTY	REMARKS	
3	N	BPBY 0005AAZ	PC BOARD:SW PB-005AA	PC006			1				N
3		BPBY 0100AAZ	PC BOARD:CHECK POINT PB-100AA	PC005			1				N
3		BPCY 0266AAZ	PC BOARD:MIC JACK PC-266AA	PC004			1				N
3	N	BPCY 0783ABZ	PC BOARD:CH SW PC-783AB	PC002			1				N
3	N	BPCY 0960AAZ	PC BOARD:LED PC-960AA	PC003			1				N
3		BRUB 1810147Z	RESISTOR:CARBON FORMED VERT 100 1/8W J	R421			1				N
3		BRUB 1815247Z	RESISTOR:CARBON FORMED VERT 1.5K 1/8W J	R424			1				N
3		BRUB 1822247Z	RESISTOR:CARBON FORMED VERT 2.2K 1/8W J	R417	R419		2				N
3		BRUB 1833147Z	RESISTOR:CARBON FORMED VERT 330 1/8W J	R401	R416		2				N
3		BRUB 1847047Z	RESISTOR:CARBON FORMED VERT 47 1/8W J	R423			1				N
3		BRUB 1856247Z	RESISTOR:CARBON FORMED VERT 5.6K 1/8W J	R414			1				N
3		BRUB 1868147Z	RESISTOR:CARBON FORMED VERT 680 1/8W J	R402 R405 R408 R411	R403 R406 R409 R412	R404 R407 R410 R413	12				N
3		BRUB 1868247Z	RESISTOR:CARBON FORMED VERT 6.8K 1/8W J	R415			1				N
3		BRVY 0222001	RESISTOR:VARIABLE RV-222 20KB	VR503			1				T
3		BRVY 0320001	RESISTOR:VARIABLE RV-320 50KA	VR501			1			S501	T
3	N	BRVY 0447001	RESISTOR:VARIABLE RV-447 50KB	VR502			1			S503	T
3		BRVY 0485001	RESISTOR:VARIABLE RV-485 1KB. 1KA	VR504			1			VR505	T
3		BSPY 0053001	SPEAKER SP-053	SP501			1				N
3		BSRY 0187001	SWITCH:ROTARY SR-187 SRN1034N	S509			1				T
3		BSRY 0205001	SWITCH:ROTARY SR-205 SRN1043N	S502			1				T
3		BSRY 0208001	SWITCH:ROTARY SR-208 USW-0197	S401			1				T
3	N	BSWY 0317001	SWITCH:PUSH SW-317 4F-00C1DE2120V1	S404			1			S406,407,409	N
3		BWFY 0230502	FLAT CABLE WF-023 6S- 50-3.5	FC001			1				J
3		BYDY 0005004	INSULATION SHEET YD-005 AC2[illegible]	YY003			1				T

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A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO			QTY/SET	DELIVERY	SAFTY	REMARKS	
3		BYDY 0047001	INSULATION SHEET YD-047 S-32	YY002			1				T
3	N	BYDY 0050001	INSULATION SHEET YD-050 AC238	YY004			1				T
3		BYYY 0027001	INSULATION SHEET YY-027	YY005	YY006	YY007	3				J
3		BYYY 0052003	JUMPER WIRE YY-052 10.0MM	JP401	JP402		2				N
3	N	BYYY 0172001	BUSHING:TIGHT CERAMIC YY-172	YY008	YY009	YY010	3				J
3		CZDZ 0702342	WIRES ASSEMBLED W-070234 1500 W/P	WP001			1				N
2		AT54 3ANBEW	UT-543A(N) WIRE	90-00000			1				
3		CUAA 007022Z	WIRE UL 1007 #24 5- 70- 5 BRN	W027			1				N
3		CUAA 008021Z	WIRE UL 1007 #24 5- 80- 3 BRN	W023			1				N
3		CUAA 010022Z	WIRE UL 1007 #24 5-100- 5 BRN	W035			1				N
3		CUAA 010044Z	WIRE UL 1007 #24 10-100-10 BRN	W101			1				N
3		CUAB 004011Z	WIRE UL 1007 #24 3- 40- 3 RED	W055			1				N
3		CUAB 006011Z	WIRE UL 1007 #24 3- 60- 3 RED	W010			1				N
3		CUAB 006021Z	WIRE UL 1007 #24 5- 60- 3 RED	W048			1				N
3		CUAB 006022Z	WIRE UL 1007 #24 5- 60- 5 RED	W028			1				N
3		CUAB 008011Z	WIRE UL 1007 #24 3- 80- 3 RED	W005			1				N
3		CUAB 008021Z	WIRE UL 1007 #24 5- 80- 3 RED	W040			1				N
3		CUAB 010022Z	WIRE UL 1007 #24 5-100- 5 RED	W012			1				N
3		CUAB 012042Z	WIRE UL 1007 #24 10-120- 5 RED	W034			1				N
3		CUAC 006011Z	WIRE UL 1007 #24 3- 60- 3 ORG	W009			1				N
3		CUAC 008011Z	WIRE UL 1007 #24 3- 80- 3 ORG	W004			1				N
3		CUAC 008021Z	WIRE UL 1007 #24 5- 80- 3 ORG	W019			1				N
3		CUAC 012021Z	WIRE UL 1007 #24 5-120- 3 ORG	W015			1				N
3		CUAC 012022Z	WIRE UL 1007 #24 5-120- 5 ORG	W024			1				N
3		CUA[illegible] 006022Z	WIRE UL 1007 #24 5- 60- 5 YEL	W026			1				N

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MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION	NOTE NO.
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A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
3		CUAD 0080212	WIRE UL 1007 #24 5- 80- 3 YEL	W008 W017 W031	3				N
3		CUAD 0100212	WIRE UL 1007 #24 5-100- 3 YEL	W041 W047	2				N
3		CUAD 0100222	WIRE UL 1007 #24 5-100- 5 YEL	W021	1				N
3		CUAF 0080212	WIRE UL 1007 #24 5- 80- 3 BLU	W003 W032 W045	3				N
3		CUAF 0100212	WIRE UL 1007 #24 5-100- 3 BLU	W020	1				N
3		CUAF 0120212	WIRE UL 1007 #24 5-120- 3 BLU	W030	1				N
3		CUAG 0060222	WIRE UL 1007 #24 5- 60- 5 VIO	W039	1				N
3		CUAG 0080212	WIRE UL 1007 #24 5- 80- 3 VIO	W033	1				N
3		CUAG 0090212	WIRE UL 1007 #24 5- 90- 3 VIO	W018	1				N
3		CUAG 0100212	WIRE UL 1007 #24 5-100- 3 VIO	W029	1				N
3		CUAG 0200212	WIRE UL 1007 #24 5-200- 3 VIO	W051 W052	2				N
3		CUAH 0080212	WIRE UL 1007 #24 5- 80- 3 GRY	W013	1				N
3		CUAH 0080222	WIRE UL 1007 #24 5- 80- 5 GRY	W022 W036	2				N
3		CUAH 0100212	WIRE UL 1007 #24 5-100- 3 GRY	W046	1				N
3		CUAJ 0040212	WIRE UL 1007 #24 5- 40- 3 WHT	W042	1				N
3		CUAJ 0060212	WIRE UL 1007 #24 5- 60- 3 WHT	W053	1				N
3		CUAJ 0080212	WIRE UL 1007 #24 5- 80- 3 WHT	W016	1				N
3		CUAJ 0080222	WIRE UL 1007 #24 5- 80- 5 WHT	W037	1				N
3		CUAJ 0100212	WIRE UL 1007 #24 5-100- 3 WHT	W006 W011	2				N
3		CUAK 0040112	WIRE UL 1007 #24 3- 40- 3 BLK	W054	1				N
3		CUAK 0060112	WIRE UL 1007 #24 3- 60- 3 BLK	W007	1				N
3		CUAK 0060212	WIRE UL 1007 #24 5- 60- 3 BLK	W043 W050	2				N
3		CUAK 0060222	WIRE UL 1007 #24 5- 60- 5 BLK	W035	1				N
3		CUAK 0080212	WIRE UL 1007 #24 5- 80- 3 BLK	W001 W002	2				N
3		CUAK 0100212	WIRE UL 1007 #24 5-100- 3 [illegible]	[illegible]	1				N

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A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
3		CUAV 0060217	WIRE UL 1007 #24 5- 60- 3 PNK	W014	1				N
3		CUAV 0080217	WIRE UL 1007 #24 5- 80- 3 PNK	W044	1				N
3		CUAV 0100227	WIRE UL 1007 #24 5-100- 5 PNK	W025	1				N
1		AT54 3ANBM	UT-543A(N)(M)	20-00000	1				
2		ECSY 206060B	CHASSIS (COMP.) ALP,2.0T		1				N
3		HCSY 206060B	CHASSIS ALP,2.0T		1				T
3		MNUT 4039887	SUPPORTER:MOUNTING BRACKET BSBM,NON OIL		4			UT-505A RIVET	T
3		SSCW 633004S	RIVET:CYLINDER HD D3X4	1	3			EARTH RIVET	T
3		TSTD 0150003	TERMINAL:LUG,SOLDER D3		3			EARTH*3	T
2		AT54 3ANBMP	UT-543A(N)(M) PARTS	90-00000	1				
3	N	GCMF 2114927	PANEL:FRONT PAINT:SILVER,SILK,ABS		1			UT-505D NEW PRINT	N
3		GHDL 4047907	HOLDER:LED ACRYL,PURPLE		1			UT-505A	N
3		GHDL 4118597	HOLDER:LED ABS,BLACK		1			UT-211	N
3		GMSC 4057367	SCREW:MOUNTING ABS INST CLR BLACK		4			UT-705A ACC	N
3		GNBC 4040437	KNOB:CHANNEL ABS,CR		1			UT-209	N
3		GNBP 4040467	KNOB:PUSH-BUTTON ABS,CR		4			UT-209	N
3		GNBW 404066B	KNOB (OUTER) ABS CR		1				N
3		GNBW 404067C	KNOB (INNER) ABS CR		1				N
3		GNBY 404045A	KNOB ABS,CR		3			UT-209	N
3		GNEY 4040587	KNOB ABS,CR		2			UT-209A MODE,BAND	N
3		HBCT 306064A	BRACKET SPCC,ZMC,1.6T		1			UT-510 ACC	N
3		HCMB 2112067	COVER:BOTTOM VINYTOP,SB-K08,E-TYPE,1T		1			UT-538A	N
3		HCMT 2105687	COVER:TOP SB-K08,1.0T,E-TYPE		1			UT-538	N
3		HCSF 304021A	CHASSIS:FRONT SPCC,1.0T,ZMC		1			UT-505D	N
3		HHDM 304022C	HOLDER:METER SPCC,1.0T,ZMC		1			UT-505D	N

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B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO	QTY/SET	DELIVERY	SAFETY	REMARKS	
3	N	HHDW 411488Z	HOLDER:SWICH SPCC,1.0T,ZMC		1				N
3	N	HHSK 411489Z	HEAT SINK ALP,2.0T,NON OIL		1			AF PWR IC	N
3		HMHG 402919Z	HANGER:MICROPHONE SPCC,1.0T,NI		1			UT-192 ACC	N
3		HSDP 402163Z	SHIELD PLATE SPT 0.3T NONOIL		1			UT-123E	N
3		HTML 405562Z	METAL STRIP:EARTH PLATING METAL,0.8T		1			UT-507	N
3	N	KDPT 411493Z	PLATE:CONTROL PVC,1.0T,SILK		1			UT-505D	N
3		LHDL 405995Z	HOLDER:LED EPT,BLACK		2			UT-508	N
3		LWSR 400638Z	WASHER:RUBBER NEOPRENE,BLACK,7*15*2.0T		4			UT-100 ACC	N
3		PLBC 419000Z	LABEL:WARNING,DC CORD PAPER,PRINT		1			DC CORD	N
3		PLBS 401500Z	LABEL:SERIAL NO. PAPER,PRINT		3			UNIT*1,DISPLAY*1,CAPTON*1	N
3	N	QHSK 411490Z	HEAT SINK A2014S-T4,BLACK,ALUMITE		1			FINAL,DRIVE TR	N
3		RCUN 404326A	CUSHION:METER NEOPRENE SP,2.0T,BLACK		1			UT-211C	N
3		RETC 304029B	PROTECTION COVER:FRONT PANEL PAPER NO.7		1			UT-505D	N
3		RETC 416034Z	SPACER **		1				N
3		RFLT 402225Z	WASHER:FELT D6*3T,WHITE		2				N
3		RUTC 403865Z	WOOL-COATED PAPER:WOOL TACK WOOL PAPER,10*150*0.3T		2			CASE(TOP,BOTTOM)	N
3		RZEB 410274Z	INSULATION PLATE PVC,0.5T		1			SHILD PLATE	N
3		SSCW 123006S	SCREW:PAN HD + M3X6 PLASTIC	1	1			REG TR	J
3		SSCW 133008N	SCREW:FLAT HD + M3X8 NI	1	4			PANEL FRONT	N
3		SSCW 192012N	SCREW:BIND HD + M2X12 NI	1	2			FINAL TR	N
3		SSCW 192012N	SCREW:BIND HD + M2X12 NI	2	1			DRIVER TR	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	1	10			CASE(TOP,BOTTOM)	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	2	2			METER	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	3	2			PUSH SW	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	4	2			3F CONNECTOR	N

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B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	SAFETY	REMARKS	
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	5	2			CHASSIS:FRONT	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	6	2			HOLDER:SW	N
3		SSCW 193006N	SCREW:BIND HD + M3X6 NI	7	2			HEAT SINK	N
3		SSCW 193008N	SCREW:BIND HD + M3X8 NI	1	2			AF PWR	N
3		SSCW 193008N	SCREW:BIND HD + M3X8 NI	2	4			SP	N
3		SSCW 193012N	SCREW:BIND HD + M3X12 NI	1	1			MODE TR	N
3		SSCW 193012N	SCREW:BIND HD + M3X12 NI	2	2			HEAT SINK	N
3		SSCW 293508N	SCREW:TAPPING ROUND HD + D3.5X8 NI	1	2			ACC HANGER:MIC	N
3		SSCW 295010N	SCREW:TAPPING ROUND HD + D5X10 NI	1	4			ACC BRACKET	N
3		SSCW 343008N	SCREW:TAPTIGHT BIND HD + M3X8 NI	1	5			PCB	N
3		SSCW 480030Z	NUT:FLANGE M3 ZMC	1	1			MODE TR	N
3		SSCW 480030Z	NUT:FLANGE M3 ZMC	2	4			SP	N
3		SSCW 530035N	WASHER:LOCK D3.5 NI	1	2			ACC HANGER:MIC	N
3		SSCW 540050N	WASHER:STAR D5 NI	1	4			ACC BRACKET	N
3		TSTD 0200001	SPRING PLATE:KNOB D3.5		1			MIC GAIN KNOB*1	N
3		TSTD 0200002	SPRING PLATE:KNOB D6		1			RF GAIN KNOB*1	N
3		TSTD 0200003	SPRING PLATE:KNOB D6.02XL9.53		1			KNOB:CH*1	N
3		TSTD 0263020	SELFLOCK INSERTER(BANC-LOK) M3 2T		12			CHASSIS	J
3	N	UTKP 01543AZ	OWNER'S MANUAL **		1				N
3		VNYL 1122800	VINYL BAG 120X280X0.05T		1				N
3		VNYL 1173200	VINYL BAG 170X320X0.05T		1				N
3		VNYL 2425262	VINYL BAG 420X520X620X0.07T		0.16666			1/6	N
3		VNYL 3070800	VINYL BAG 70X80X0.1T		1			MISCELLANY*1	N
3		VNYL 3324500	VINYL BAG 320X450X0.1T		1				N
3	N	WEXC 311494A	DISPLAY BOX **		1				N

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B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO.	QTY/SET	DELIVERY	P/S	REMARKS	
3	N	WCTZ 411495A	SHIPPING CARTON BOX **		0.16666			1/6	N
3		WSFC 304002A	STYROFOAM PAD(FRONT) **		1			UT-505A	N
3	N	WSFC 311496A	STYROFOAM PAD:REAR **		1				N

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B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
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LEVEL	C	PART CODE	DESCRIPTION	REF. NO.		QTY/SET	DELIVERY	SAFETY	REMARKS
		BDAY 0020004	DIODE:ZENER XZ-051	D059	BDAY-0269001				DIODE:ZENER HZ5B-3
		BDAY 0020004	DIODE:ZENER XZ-051	D059	BDAY-0269002				DIODE:ZENER HZ5C-1
		BDAY 0020012	DIODE:ZENER XZ-072	D063	BDAY-0086009				DIODE:ZENER RD7.5EB2
		BDAY 0020012	DIODE:ZENER XZ-072	D063	BDAY-0269013				DIODE:ZENER HZ-7B3
		BDAY 0063001	DIODE 1S2075K	D003	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D003	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D005	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D005	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D006	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D006	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D007	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D007	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D008	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D008	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D009	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D009	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D013	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D013	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D014	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D014	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D015	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D015	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D016	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D016	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D019	BDAY-0137001				DIODE 1N4148

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MFR'S MODEL CODE	CUSTOMER		REVISION NOTE NO
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A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	M/C	PART CODE	DESCRIPTION	REF NO		QTY/SET	DELIVERY	ITEMS	REMARKS
		BDAY 0063001	DIODE 1S2075K	D019	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D020	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D020	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D021	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D021	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D022	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D022	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D024	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D024	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D025	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D025	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D028	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D028	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D029	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D029	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D033	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D033	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D034	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D034	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D035	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D035	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D036	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D036	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D037	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D037	BDAY-0181001				DIODE 1S1555

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MFR'S MODEL CODE	CUSTOMER	REVISION NOTE NO
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A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.	QTY/SET	DELIVERY	C	REMARKS
		BDAY 0063001	DIODE 1S2075K	D038 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D038 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D039 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D039 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D041 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D041 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D042 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D042 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D043 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D043 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D045 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D045 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D046 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D046 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D047 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D047 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D048 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D048 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D049 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D049 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D050 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D050 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D051 BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D051 BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D052 BDAY-0137001				DIODE 1N4148

MFR S MODEL CODE: UT543AN | CUSTOMER: | MODEL: | REVISION NOTE NO.:

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C: CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.		QTY/SET	DELIVERY	SAFTY	REMARKS	
		BDAY 0063001	DIODE 1S2075K	D052	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D053	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D053	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D054	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D054	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D055	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D055	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D056	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D056	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D057	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D057	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D058	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D058	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D060	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D060	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D064	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D064	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D065	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D065	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D066	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D066	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D067	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D067	BDAY-0181001				DIODE 1S1555	
		BDAY 0063001	DIODE 1S2075K	D068	BDAY-0137001				DIODE 1N4148	
		BDAY 0063001	DIODE 1S2075K	D068	BDAY-0181001				DIODE 1S1555	

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MFR'S MODEL CODE	CUSTOMER	MODEL	REVISION NOTE NO
UT543AN			

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO		QTY/SET	DELIVERY	SAFETY	REMARKS
		BDAY 0063001	DIODE 1S2075K	D072	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D072	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D073	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D073	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D074	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D074	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D076	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D076	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D078	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D078	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D079	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D079	BDAY-0181001				DIODE 1S1555
		BDAY 0063001	DIODE 1S2075K	D081	BDAY-0137001				DIODE 1N4148
		BDAY 0063001	DIODE 1S2075K	D081	BDAY-0181001				DIODE 1S1555
		BDAY 0220001	DIODE 1SV73-EE	D040	BDAY-0006009				DIODE:VARI-CAP 1S2688EB
		BDAY 0220001	DIODE 1SV73-EE	D044	BDAY-0006009				DIODE:VARI-CAP 1S2688EB
		BDBA 0733115	TRANSISTOR DB-003 2SA733-P	TR006	BDBA-0733506				TRANSISTOR DB-003 2SA733A-P
		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR022	BDBZ-0520001				TRANSISTOR DB-520 MPS H 10
		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR022	BDBZ-0521001				TRANSISTOR DB-521 LSP1200
		BDEY 0145001	INTEGRATED CIRCUIT NJM4558D	IC004	BDEY-0506001				INTEGRATED CIRCUIT BA455P
		BDEY 0145001	INTEGRATED CIRCUIT NJM4558D	IC004	BDEY-0560001				INTEGRATED CIRCUIT M5218P
		BDEY 0196002	INTEGRATED CIRCUIT UPC1028HA	IC002	BDEY-0196001				INTEGRATED CIRCUIT UPC1028H
		BDEY 0250001	INTEGRATED CIRCUIT MC14008BCP	IC008	BDEY-0314001				INTEGRATED CIRCUIT HD14008BP
		BDEY 0250001	INTEGRATED CIRCUIT MC14008BCP	IC008	BDEY-0287001				INTEGRATED CIRCUIT TC4008BP
		BDEY 0250001	INTEGRATED CIRCUIT MC14008BCP	IC009	BDEY-0814001				INTEGRATED CIRCUIT HD14008BP

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MFR'S MODEL CODE	CUSTOMER	REVISION NOTE NO.
UT543AN	MODEL	

BILL OF MATERIAL

A UL -C E SAA-C I VDE-C
B UL F SAA J VDE
C CSA-C G BS -C
D CSA H BS
-C : CERTIFICATION CARD

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LEVEL	N/C	PART CODE	DESCRIPTION	REF NO.		QTY/SET	DELIVER	REMARKS
		BDEY 0250001	INTEGRATED CIRCUIT MC14008BCP	IC009	BDEY-0287001			INTEGRATED CIRCUIT TC4008BP
		BDEY 0312001	INTEGRATED CIRCUIT NJM2902N	IC001	BDEY-0284001			INTEGRATED CIRCUIT TA75902P
		BFLY 0096001	FILTER:CRYSTAL FL-096 MF10JD2	FL003	BFLY-0090001			FILTER:CRYSTAL FL-090 UMF-058(10.695)
		BLCY 0184001	COIL LC-184 2.5T.D0.6UEW	L037	BLCY-0018001			COIL LC-018 TC-71024
		BDBA 0733115	TRANSISTOR DB-003 2SA733-P	TR034	BDBA-0733506			TRANSISTOR DB-003 2SA733A-P
		BDBB 0525103	TRANSISTOR DB-106 2SB525-C	TR035	BDBB-0525104			TRANSISTOR DB-106 2SB525-D
		BDBB 0525103	TRANSISTOR DB-106 2SB525-C	TRC35	BDBB-0525105			TRANSISTOR DB-106 2SB525-E
		BDBB 0525103	TRANSISTOR DB-106 2SB525-C	TR037	BDBB-0525104			TRANSISTOR DB-106 2SB525-D
		BDBB 0525103	TRANSISTOR DB-106 2SB525-C	TRC37	BDBB-0525105			TRANSISTOR DB-106 2SB525-E
		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR045	BDBZ-0520001			TRANSISTOR DB-520 MPS H 10
		BDBC 1730111	TRANSISTOR DB-269 2SC1730-L	TR045	BDBZ-0521001			TRANSISTOR DB-521 LSP1200
	N	BDBB 0754114	TRANSISTOR DB-110 2SB754-O	TR047	BDBB-0754124			TRANSISTOR DB-110 2SB754-Y
	N	BDBC 2312103	TRANSISTOR DB-332 2SC2312-C	TR041	BDBC-2312102			TRANSISTOR DB-332 2SC2312-B
	N	BDBC 2312103	TRANSISTOR DB-332 2SC2312-C	TR041	BDBC-2312104			TRANSISTOR DB-332 2SC2312-D
	N	BDBC 2312103	TRANSISTOR DB-332 2SC2312-C	TR042	BDBC-2312102			TRANSISTOR DB-332 2SC2312-B
	N	BDBC 2312103	TRANSISTOR DB-332 2SC2312-C	TR042	BDBC-2312104			TRANSISTOR DB-332 2SC2312-D
		BJKY 0068002	JACK W/O LUG JK-068 N-7512	J503	BJKY-0370002			JACK JK-370 W/O LUG
		BRVY 0222001	RESISTOR:VARIABLE RV-222 20KB	VR503	BRVY-0139001			RESISTOR:VARIABLE RV-139 20KB
		BSRY 0187001	SWITCH:ROTARY SR-187 SRN1034N	S509	BSRY-0235001			SWITCH:ROTARY SR-235 USW-0273
		BSRY 0205001	SWITCH:ROTARY SR-205 SRN1043N	S502	BSRY-0233001			SWITCH:ROTARY SR-233 USW-0271
		BWFY 0230502	FLAT CABLE WF-023 6S- 50-3.5	FC001	BWFY-0610509			FLAT CABLE WF-061 3- 50- 3

***** END *****

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